

***Getac***

EX80  
USER MANUAL

August 2019

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**NOTE**

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# Table of Contents

<b>Chapter 1</b>	<b>Getting Started</b> .....	<b>1</b>
	Getting the Tablet PC Running.....	2
	Unpacking.....	2
	Installing the SIM Card (Optional).....	3
	Connecting to AC Power.....	4
	Turning On and Off the Tablet PC.....	5
	Identifying Hardware Components.....	6
	EX80.....	6
	Charging Cradle.....	9
	Using Accessories.....	10
	Using the Tether.....	10
	Using the Stylus Holder.....	11
	Using the Hand Strap.....	12
<b>Chapter 2</b>	<b>Operating Your Tablet PC</b> .....	<b>15</b>
	Using the Touchscreen.....	16
	Using Network and Wireless Connections.....	19
	Using the LAN.....	19
	Using the WLAN.....	19
	Using the Bluetooth Feature.....	21
	Using the WWAN Feature (Optional).....	22
	Using the GPS Feature.....	24
	Using the NFC/RFID Reader.....	25
	Connecting USB Devices.....	26
<b>Chapter 3</b>	<b>Managing Power</b> .....	<b>27</b>
	AC Adapter.....	28
	Battery Pack.....	29
	Charging the Battery Pack.....	29
	Initializing the Battery Pack.....	30
	Checking the Battery Level.....	30
	Battery Low Signals and Actions.....	30
	Power-Saving Tips.....	32

<b>Chapter 4</b>	<b>Using BIOS Setup</b> .....	<b>33</b>
	When and How to Use.....	34
	Menu Descriptions .....	35
	Information Menu .....	35
	Main Menu.....	35
	Advanced Menu.....	35
	Security Menu .....	36
	Boot Menu .....	37
	Exit Menu .....	37
<b>Chapter 5</b>	<b>Using Getac Software</b> .....	<b>39</b>
	G-Manager .....	40
	G-Camera.....	41
<b>Chapter 6</b>	<b>Care and Maintenance</b> .....	<b>42</b>
	Taking Care of the Tablet PC .....	43
	Location Guidelines .....	43
	General Guidelines .....	43
	Cleaning Guidelines.....	44
	Battery Pack Guidelines.....	44
	Touchscreen Guidelines.....	45
	When Traveling.....	46
<b>Chapter 7</b>	<b>Troubleshooting</b> .....	<b>47</b>
	Preliminary Checklist.....	48
	Solving Common Problems.....	49
	Battery Problems .....	49
	Bluetooth Wireless Transmission Problems .....	49
	Display Problems.....	50
	Hardware Device Problems.....	50
	Power Management Problems .....	51
	Sensor Problems.....	51
	Software Problems .....	52
	Sound Problems .....	52
	Startup Problems .....	53
	WLAN Problems .....	53
	Other Problems.....	55
	Resetting the Tablet PC .....	56
	System Recovery.....	57
	Using Windows RE.....	57
	Using Recovery Partition .....	58
	Using the Driver Disc (Optional) .....	59

**Appendix A Specifications ..... 60**

**Appendix B Regulatory Information..... 62**

- On the Use of the System ..... 63
  - Class B Regulations ..... 63
  - Safety Notices..... 64
- On the Use of the RF Device..... 66
  - USA and Canada Safety Requirements and Notices..... 66
  - European Union CE Marking and Compliance Notices..... 67
- User Notification of Take-back Service..... 70
- California Proposition 65..... 71
- ENERGY STAR 6.1 ..... 72

# Chapter 1

## *Getting Started*









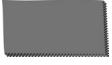
This chapter first tells you step by step how to get the Tablet PC up and running. Then, you will find a section briefly introducing the external components of the Tablet PC.

# Getting the Tablet PC Running

## Unpacking

**NOTE:** This packing list applies to standard models. Select models may have different items.

After unpacking the shipping carton, you should find these standard items:

● EX80 Tablet PC	
● Hand strap	
	
● Charging cradle	● Stylus holder
	
● AC adapter	● Stylus
	
● Power plugs	● Tether
	
● Corner bumpers*	● Cleaning cloth
	
	● Document(s)
	● Driver disc (optional)

\* The corner bumpers have been installed before shipment.

Inspect all the items. If any item is damaged or missing, notify your dealer immediately.

# Installing the SIM Card (Optional)

1. The SIM card slot is on the right side of the Tablet PC. Unfasten two screws and flip open the cover.



2. Noting the orientation, insert the SIM card all the way into the slot.



**NOTE:** To remove the SIM card, just push in the card to release it and then pull it out.

3. Close the cover and tighten the screws.

**CAUTION:** To ensure sealing capability and IP67 protection performance, always have the cover closed with the screws tightened unless you need to open it for inserting or removing a card.



# Connecting to AC Power

**CAUTION:** Use only the AC adapter included with your Tablet PC. Using other AC adapters may damage the Tablet PC.

**NOTE:** The battery pack is shipped to you in power saving mode that protects it from charging/discharging. It will get out of the mode to be ready for use when you connect AC power to the Tablet PC for the very first time.

You must use AC power when starting up the Tablet PC for the very first time.

1. Align the center line of the Tablet PC with the center line of the charging cradle, and place the Tablet PC in the cradle.



2. Fit the power plug to the AC adapter (❶). Connect the DC jack end of the AC adapter to the cradle (❷) and the other end to a wall outlet (❸).



3. The Power indicator on the charging cradle lights green. Now, you are ready to turn on the Tablet PC.

# Turning On and Off the Tablet PC





## Turning On

Press the power button (  ). The Windows operating system should start.

**NOTE:** Tapping the screen during startup may invoke a pre-boot menu (unless the default settings have been changed). If the menu appears, simply select **Continue**.

## Turning Off

When you finish a working session, you can stop the system by turning off the power or leaving it in Sleep or Hibernation mode:

To...	Do this...
Power off (Shutdown)	Tap  →  Power → Shut down.
Sleep	Press the power button.* -or- Tap  →  Power → Sleep.
Hibernate	By default, this option is not shown in the Start menu. If you want to use the feature, set up accordingly in Windows settings.




\* "Sleep" is the default setting of the power button. You may change what the power button does in Windows settings.

# Identifying Hardware Components

**NOTE:** Depending on the model you purchased, the appearance of your Tablet PC may not be exactly the same as those shown in this manual.

## EX80



Ref	Component	Description
①	Camera lens	Allows you to use the camera function.
②	Speaker	Sends out sound and voice from your Tablet PC.
③	Touchscreen	Displays and receives information for the Tablet PC.
④	<b>Indicators</b>	
	 <b>Camera</b>	Lights up when the camera is in use.
	 <b>Battery</b>	Lights amber when the battery is being charged.
		Lights green when charging is completed.
		Blinks green to indicate the battery's built-in high temperature protection mechanism is activated.
		Blinks red (once per second) when the battery's capacity is below 10%.
		Blinks red rapidly (once per 0.5 second) when there is a thermal protection problem. Ask for repair service in case this happens.
	 <b>Power</b>	Lights blue when the power is on.
		Blinks blue when the system is in Sleep mode.
⑤	<b>P1 button</b>	Starts the G-Camera application.
⑥	<b>P2 button</b>	Enables or disables the auto rotate function.
⑦	<b>Windows logo button</b>	Opens or closes the Start menu.
⑧	<b>Plus button</b>	Increases the volume.
⑨	<b>Minus button</b>	Decreases the volume.
⑩	<b>Power button</b>	Turns the power on or off. (The default "off" state is "Sleep mode.")
⑪	<b>Microphone</b>	Receives sound and voice to record voice.
⑫	<b>SIM card slot (optional)</b>	Accepts a SIM card.

Ref	Component	Description
13	Docking connector	Connects to the charging cradle.
14	Tether holder	For holding a tether (such as the stylus tether). There is one holder at each corner of the Tablet PC. The holder is accessible after the corner bumper is removed.
15	NFC/RFID reader	Reads data from NFC/RFID tags.
16	Camera lens	Allows you to use the camera function.
17	Flash	Provides extra light when taking pictures.

**NOTE:**

- The hardware buttons (except the power button) can be re-defined using G-Manager.
- The hardware buttons (except the power button) provide keyboard key functions on “POST/BIOS Setup/Non-ACPI” occasions. (See “Button Functions on Special Occasions” in Appendix A for information.)

# Charging Cradle



Ref	Component	Description
❶	Docking connector	Connects to EX80.
❷	Power connector	Connects the AC adapter.
❸	USB 2.0 port	Connects a USB device.
❹	Power indicator	Lights green when the AC adapter is connected and EX80 is docked.
		Blinks green during USB data transfer.
❺	RJ-45 connector	Connects the LAN cable.

# Using Accessories

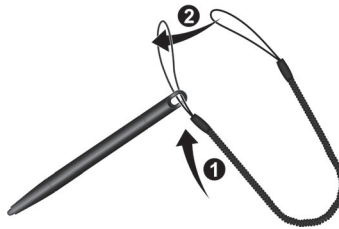
## Using the Tether

A tether is provided for attaching the stylus to your Tablet PC.

1. Depending on where you want to attach the tether, remove the corner bumper from your Tablet PC. Use your fingers to carefully pry up from both sides of the bumper (as indicated by the arrows in the illustration) and detach it.



2. Insert one of the tether's loop ends through the hole of the stylus (as indicated by ❶ below). Then, insert the other end through the first loop (as indicated by ❷ below) and pull it tight.



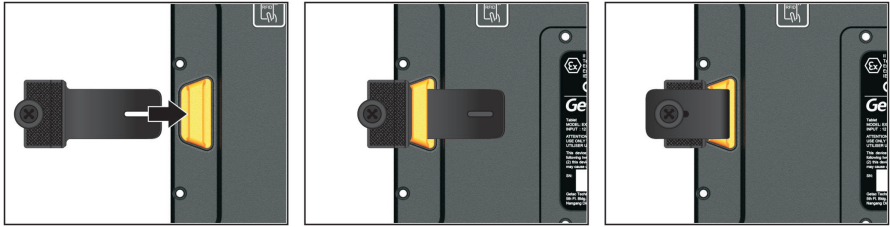
3. Insert the other loop end to the tether holder on the Tablet PC (as indicated by ❶ below). Then, insert the stylus end through the loop (as indicated by ❷ below) and pull it tight.



# Using the Stylus Holder

**NOTE:** You cannot install the stylus holder if the hand strap is installed.

1. Slide the piece through the slot, fold the piece, and button up.



2. Store the stylus in the holder.





# Using the Hand Strap

**NOTE:** You cannot install the hand strap if the stylus holder is installed.

This hand strap provides three functions for your Tablet PC: rotatable hand grip, kickstand, and stylus holder.

## Installation

1. Insert the end belts of the hand strap through the two slots.



2. To fasten each belt:

Fold the belt over and insert it through the slide adjuster, going from underneath the inner side of the adjuster (❶).

Fold the belt over, insert it through the outer side of the slide adjuster, and pull it tight (❷).



3. Make sure the hand strap is positioned at the center. If it is not centered, adjust the belts until it is.

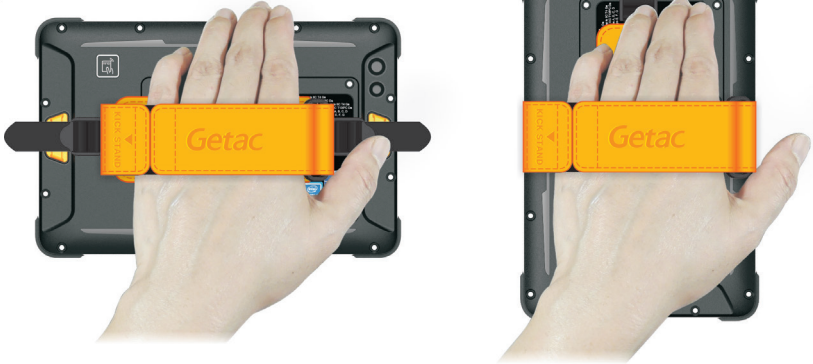
# Applications

## Rotatable Hand Grip

Insert your fingers through the hand grip to hold your Tablet PC.



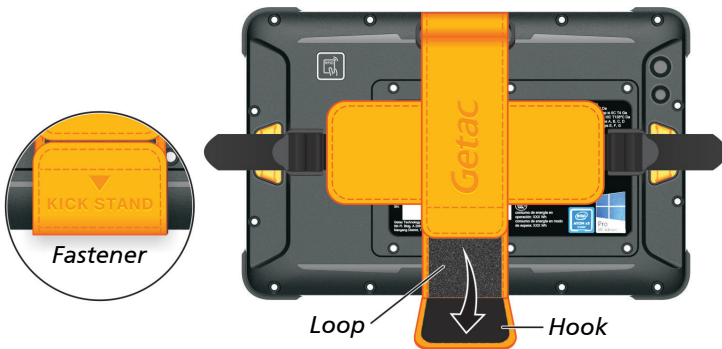
This imprint indicates the surface on which you put your hand.



The hand grip is rotatable. The tightness can be adjusted.

## Kickstand

1. Rotate the hand grip sideways as shown below.
2. Pull apart to open the hook-and-loop fastener.



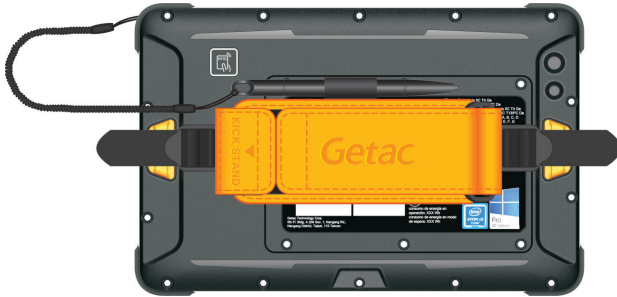
3. Extend the hand grip to form a triangle.



**NOTE:** When closing the hand grip, be sure to fold up the flexible band properly. Keep the folded band inside the hand grip in a flat and smooth condition.

### Stylus Holder

Use the stylus holder to store the stylus.



## Chapter 2

# *Operating Your Tablet PC*

This chapter provides information about the use of the Tablet PC.

If you are new to Tablet PCs, reading this chapter will help you learn the operating basics. If you are already a computer user, you may choose to read only the parts containing information unique to your Tablet PC.

### **CAUTION:**

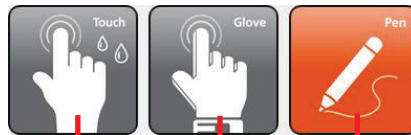
- Do not expose your skin to the Tablet PC when operating it in a very hot or cold environment.
- The Tablet PC can get uncomfortably warm when you use it in high temperatures. As a safety precaution in such a circumstance, do not place the Tablet PC on your lap or touch it with your bare hands for extended periods of time. Prolonged body contact can cause discomfort and potentially a burn.

# Using the Touchscreen

**CAUTION:** Do not use a sharp object such as a ballpoint pen or pencil on the touchscreen. Doing so may damage the touchscreen surface. Use the included stylus or your finger.

Your Tablet PC has a capacitive touchscreen. This type of touchscreen responds to objects that have conductive properties, such as fingertips and a capacitive-tipped stylus.

You can change the touchscreen sensitivity settings to suit your scenario. Double-tap the **Touch Screen Mode** shortcut on Windows desktop to open the settings menu and select one of the options (as shown below).



Select this if you prefer using fingertips. Also, select this when raindrops are falling on the screen and should be rejected as input.

Select this if you are wearing gloves (referring to warm gloves or work gloves, not referring to touchscreen-capable gloves).

Select this if you are using the stylus. (You must use the one supplied with your model.)

## NOTE:

- In high temperatures (above 60 °C / 140 °F), set the mode to **Touch** instead of **Glove** or **Pen** mode.
- If liquid is spilled on the touchscreen causing a wet area, the area will stop responding to any inputs. For the area to function again, you must dry it.

The following table shows how you use the touchscreen to obtain equivalent mouse functions.

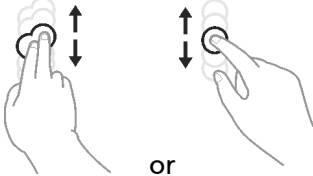

Term/Action	Equivalent Mouse Function
<b>Tap:</b> Touch the screen once.	Click/Point
<b>Double-tap:</b> Touch the screen twice rapidly.	Double-click

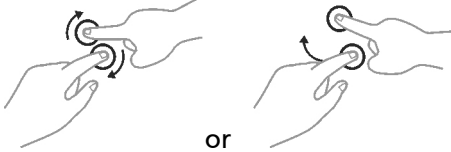
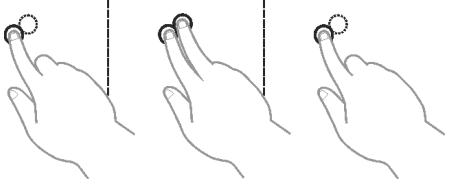
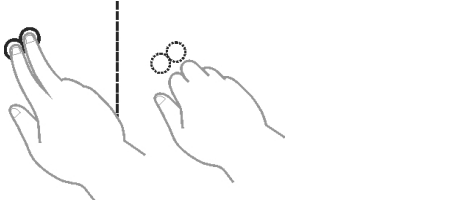
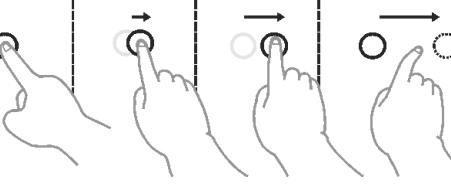
Term/Action	Equivalent Mouse Function
<b>Tap and hold:</b> Tap and hold until a popup menu appears.	Right-click
<b>Drag:</b> Hold the stylus (or finger) on the screen and drag across the screen until reaching your destination.	Drag

## Using Multi-touch Gestures

You can interact with your Tablet PC by placing two fingers on the screen. The movement of the fingers across the screen creates “gestures,” which send commands to the Tablet PC.

Here are the multi-touch gestures that you can use:

Gestures	Actions (○ = finger down; ◉ = finger up)	Descriptions
Pan (Scroll)	 <p>or</p> <p>Drag 1 or 2 fingers up or down.</p>	Use panning to see another part of a page that has scroll bars.
Zoom (Pinch)	 <p>Move two fingers apart/toward each other.</p>	Use zooming to make an item (a photo for example) on the screen larger or smaller. The gesture works in applications that support mouse wheel zooming.

Gestures	Actions (○ = finger down; ◉ = finger up)	Descriptions
Rotate	 <p>or</p> <p>Move two fingers in opposing directions. -or- Use one finger to pivot around another.</p>	Use rotating to move a picture or other item on the screen in a circular direction (clockwise or counter-clockwise). The gesture works in applications that support the specific gesture.
Press and Tap	 <p>Press on target and tap using a second finger.</p>	Use press and tap to access the shortcut menu.
Two-finger Tap	 <p>Tap two fingers at the same time (where the target is in the midpoint between the fingers).</p>	The function is defined by applications that support the specific gesture.
Flicks	 <p>Make quick drag gestures in the desired direction.</p>	Flick left or right to navigate back and forward in a browser and other applications. The gesture works in most applications that support back and forward.

# Using Network and Wireless Connections

## Using the LAN

**NOTE:** The charging cradle is required.

1. Place your Tablet PC in the charging cradle.
2. Connect the AC adapter to the cradle.
3. Connect one end of the LAN cable to the RJ-45 connector on the cradle and the other end to the network hub.



## Using the WLAN

The WLAN (Wireless Local Area Network) module supports IEEE 802.11ac, compatible with 802.11a/b/g/n.



**NOTE:** Do not block the antenna area.




## Turning On/Off the WLAN Radio

**To turn on the WLAN radio:**


Tap  → **Settings** → **Network & Internet** → **Wi-Fi**. Slide the **Wi-Fi** switch to the **On** position.

**To turn off the WLAN radio:**

You can turn off the WLAN radio the same way you turn it on.

If you want to quickly turn off all wireless radio, simply switch on Airplane mode. Tap  → **Settings** → **Network & Internet** → **Airplane mode**.

## Connecting to a WLAN Network

1. Make sure that the WLAN function is enabled (as described above).
2. Tap the network icon  in the lower right of the task bar.
3. In the list of available wireless networks, tap a network, and then tap **Connect**.
4. Some networks require a network security key or passphrase. To connect to one of those networks, ask your network administrator or Internet service provider (ISP) for the security key or passphrase.

For more information on setting a wireless network connection, refer to Windows online help.

# Using the Bluetooth Feature

The Bluetooth technology allows short-range wireless communications between devices without requiring a cable connection. Data can be transmitted through walls, pockets and briefcases as long as two devices are within range.

**NOTE:** Do not block the antenna area.




## Turning On/Off the Bluetooth Radio

**To turn on the Bluetooth radio:**


Tap  → **Settings** → **Devices** → **Bluetooth**. Slide the **Bluetooth** switch to the **On** position.

**To turn off the Bluetooth radio:**

You can turn off the Bluetooth radio the same way you turn it on.

If you want to quickly turn off all wireless radio, simply switch on Airplane mode. Tap  → **Settings** → **Network & Internet** → **Airplane mode**.

## Connecting to another Bluetooth Device

1. Make sure that the Bluetooth function is enabled (as described above).
2. Make sure that the target Bluetooth device is turned on, discoverable and within close range. (See the documentation that came with the Bluetooth device.)
3. Tap  → **Settings** → **Devices** → **Bluetooth**.
4. Select the device you want to connect from the search results.

- Depending on the type of Bluetooth device that you want to connect to, you will need to enter the pertinent information.

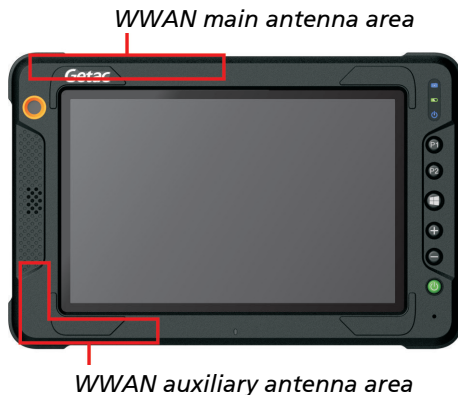
For detailed information on using the Bluetooth feature, see Windows' online Help.

## Using the WWAN Feature (Optional)

A WWAN (Wireless Wide Area Network) uses mobile telecommunication cellular network technologies to transfer data. The WWAN module supports 3G and 4G LTE.


### NOTE:

- Your model only supports data transmission. Voice transmission is not supported.
- For instructions on installing the SIM card, see "Installing the SIM Card (Optional)" in Chapter 1.
- Do not block the antenna area.




## Turning On/Off the WWAN Radio

**To turn on the WWAN radio:**

Tap  → **Settings** → **Network & Internet** → **Airplane mode**. Slide the **Cellular** switch to the On position.

**To turn off the WWAN radio:**

You can turn off the WWAN radio the same way you turn it on.

If you want to quickly turn off all wireless radio, simply switch on Airplane mode. Tap  → **Settings** → **Network & Internet** → **Airplane mode**.

## Setting up a WWAN Connection

Tap  → **Settings** → **Network & Internet** → **Cellular**. (For detailed information on cellular settings in Windows 10, see Microsoft Support website.)

# Using the GPS Feature

GPS (Global Positioning System) technology allows you to pinpoint the geographic location of the computer and use the data for navigational and other purposes.


**NOTE:**

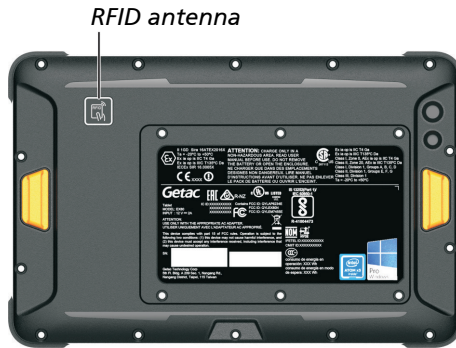
- You need to install third-party software to take full advantage of the GPS feature.
- Do not block the antenna area.



# Using the NFC/RFID Reader

The NFC/RFID reader can read data from NFC (Near Field Communication) and RFID (Radio Frequency Identification) tags.

For optimal results when reading an NFC/RFID tag, have the tag face the antenna in the same orientation as indicated by the icon on the exterior of the Tablet PC. The icon  indicates where the RFID antenna is located.



## NOTE:

- When not using an NFC/RFID card, do not leave it within or near the antenna area.
- For enhanced applications and customization of the module, contact your authorized Getac dealer.
- The NFC reader requires specialized applications. For further information, ask your system administrator.

# Connecting USB Devices

**NOTE:** The charging cradle is required.

The charging cradle has three USB 2.0 ports.

1. Place your Tablet PC in the charging cradle.
2. Connect the AC adapter to the cradle.
3. Connect the cable to the USB port on the cradle.



# Chapter 3

## *Managing Power*

Your Tablet PC operates either on external AC power or on internal battery power.

This chapter tells you how you can effectively manage power. To maintain optimal battery performance, it is important that you use the battery in the proper way.



# AC Adapter

## CAUTION:

- The AC adapter is designed for use with your Tablet PC only. Connecting the AC adapter to another device can damage the adapter.
- The AC power cord supplied with your Tablet PC is for use in the country where you purchased your Tablet PC. If you plan to go overseas with the Tablet PC, consult your dealer for the appropriate power cord.
- When you disconnect the AC adapter, disconnect from the electrical outlet first and then from the Tablet PC. A reverse procedure may damage the AC adapter or Tablet PC.
- When unplugging the connector, always hold the plug head. Never pull on the cord.

The AC adapter serves as a converter from AC (Alternating Current) to DC (Direct Current) power because your Tablet PC runs on DC power, but an electrical outlet usually provides AC power. It also charges the battery pack when connected to AC power.

The adapter operates on any voltage in the range of 100-240 V AC.

# Battery Pack


The battery pack is the internal power source for the Tablet PC. It is rechargeable using the AC adapter.

**NOTE:** Care and maintenance information for the battery is provided in the “Battery Pack Guidelines” section in Chapter 6.

## Charging the Battery Pack

### NOTE:

- Charging will not start if the battery’s temperature is outside the allowed range, which is between 0 °C (32 °F) and 50 °C (122 °F). Once the battery’s temperature meets the requirements, charging automatically resumes.
- During charging, do not disconnect the AC adapter before the battery has been fully charged; otherwise you will get a prematurely charged battery.
- The battery has a high temperature protection mechanism which limits the maximum charge of the battery to 80% of its total capacity in the event of high temperature conditions. In such conditions, the battery will be regarded as fully charged at 80% capacity.
- The battery level may automatically lessen due to the self-discharge process, even when the battery pack is fully charged. This happens no matter if the battery pack is installed in the Tablet PC.

To charge the battery pack, place your Tablet PC in the charging cradle, and connect the AC adapter to the cradle and an electrical outlet. The Battery Indicator (  ) on the Tablet PC glows amber to indicate that charging is in progress. You are advised to keep the Tablet PC power off while the battery is being charged. When the battery is fully charged, the Battery Indicator glows green.

It takes approximately 4 hours to fully charge the battery pack when the power is off and approximately 6 hours when the power is on (may need a longer charging time at lower temperatures).

### CAUTION:

- After the Tablet PC has been fully recharged, do not immediately disconnect and reconnect the AC adapter to charge it again. Doing so may damage the battery.

- After the Tablet PC has been fully recharged, do not leave it on the cradle with AC power connected for a long period of time. This is to avoid repeated charging.

## Initializing the Battery Pack

You need to initialize a new battery pack before using it for the first time or when the actual operating time of a battery pack is much less than expected. Initializing is the process of fully charging, discharging, and then charging. It can take several hours.

A software tool called “Gauge Reset” is provided for the purpose. Use the G-Manager program and select the **Battery** tab to find the tool.

## Checking the Battery Level



**NOTE:** Any battery level indication is an estimated result. The actual operating time can be different from the estimated time, depending on how you are using the Tablet PC.


The operating time of a fully charged battery pack depends on how you are using the Tablet PC. When your applications often access peripherals, you will experience a shorter operating time.


You can check the approximate battery level using the battery meter function of the operating system. To read the battery level in Windows, tap the battery icon on the taskbar.

## Battery Low Signals and Actions

The battery icon changes appearance to display the current state of the battery.

Battery Icon	Battery Level	Description
	Discharging	The icon shows the charge remaining in 10-percent increments until the charge reaches the low-battery level.
	Low	The battery charge has reached the low-battery level.

Battery Icon	Battery Level	Description
	Critically low	The battery charge has reached the critical battery level. By default, Windows will display a notification and put your Tablet PC into Hibernation.

When the battery is low, the Tablet PC's Battery Indicator () also blinks red to alert you to take actions.

Always respond to low-battery by connecting the AC adapter, placing your Tablet PC in Hibernation mode, or turning off the Tablet PC.

# Power-Saving Tips

Aside from enabling your Tablet PC's power saving mode, you can do your part to maximize the battery's operating time by following these suggestions.

- Do not disable Power Management.
- Decrease the LCD brightness to the lowest comfortable level.
- Shorten the length of time before Windows turn off the display.
- When not using a connected device, disconnect it.
- Turn off the wireless radio if you are not using the wireless module (such as WLAN, Bluetooth, or WWAN).
- Turn off the Tablet PC when you are not using it.

# Chapter 4

## *Using BIOS Setup*

BIOS Setup Utility is a program for configuring the BIOS (Basic Input/ Output System) settings of the Tablet PC. BIOS is a layer of software, called firmware, that translates instructions from other layers of software into instructions that the computer hardware can understand. The BIOS settings are needed by your Tablet PC to identify the types of installed devices and establish special features.

This chapter tells you how to use the BIOS Setup Utility.

# When and How to Use

**NOTE:** The actual setting items on your model may differ from those described in this chapter.

You need to run BIOS Setup Utility when:


- You see an error message on the screen requesting you to run BIOS Setup Utility.
- You want to restore the factory default BIOS settings.
- You want to modify some specific settings according to the hardware.
- You want to modify some specific settings to optimize the system performance.

To run BIOS Setup Utility:

**Method 1:** During system startup when the logo screen appears, tap the screen or press the **Windows Logo** button on your Tablet PC. In the pre-boot menu that appears, select **Setup Utility**. (Tap with your finger. Stylus is not supported here.)

## **NOTE:**

- If you don't want any accidental tapping to invoke the pre-boot menu, you can disable this method by setting the "**Screen Tapping for Boot Options**" item in the BIOS Setup Utility.
- When tapping the screen for operating BIOS Setup, use your finger. The touching of a stylus tip is not supported in this situation.
- For Windows 10 models, the time period in which you can use the above method is extremely short. You can use the other method as described below.

**Method 2:** Tap  → **Settings** → **Update & security** → **Recovery**. Under **Advanced startup**, tap **Restart now**. In the boot options menu, tap **Troubleshoot** → **UEFI Firmware Settings**. Tap **Restart**. In the pre-boot menu that appears, select **Setup Utility**.

# Menu Descriptions

## Information Menu

The Information menu contains the basic configuration information of the system. There are no user-definable items in this menu.

**NOTE:** The “Asset Tag” information appears when you have entered the asset number for this Tablet PC using the asset management program. The program is provided in the **Asset tag** folder of the Driver disc.

## Main Menu

The Main menu contains the various system settings.

- **System Date** sets the system date.
- **System Time** sets the system time.

## Advanced Menu

The Advanced menu contains the advanced settings.

- **Virtualization Technology Setup**  
**Intel(R) Virtualization Technology** enables or disables Intel® VT (Intel Virtualization Technology) feature which provides hardware support for processor virtualization. When enabled, a VMM (Virtual Machine Monitor) can utilize the additional hardware virtualization capabilities provided by this technology.
- **Graphics Setup**  
**DVMT Pre-Allocated** sets the amount of pre-allocated (fixed) graphics memory for use by the internal graphics device.
- **Device Configuration** enables or disables several hardware components. The items available for setting depend on your model.
- **Screen Tapping for Boot Options** sets if tapping the screen during startup will invoke the boot options menu which provides access to some pre-boot operations. If disabled, tapping the screen during startup has no effect to the system’s booting process.



- **MAC Address Pass Through** allows the system specific MAC address to pass through a connected dock, meaning the dock specific MAC address will be overridden by the system specific MAC address. This feature only works for UEFI PXE boot.
- **Recovery Partition** allows you to restore your Windows 10 system to the factory default state by using the “recovery partition” feature. Recovery partition is a portion of your hard disk drive that is set aside by the manufacturer to hold the original image of your system.

### WARNING:

- Using this feature will reinstall Windows to your system and configure it to the system’s factory default settings. All data on the hard disk drive will be lost.
- Make sure that power is not interrupted during the recovery process. An unsuccessful recovery may result in Windows startup problems.
- **Windows RE** launches Windows Recovery Environment. Windows RE (Windows Recovery Environment) is a recovery environment that provides recovery, repair, and troubleshooting tools in Windows 10.

## Security Menu

The Security menu contains the security settings, which safeguard your system against unauthorized use.

### NOTE:

- You can set the user password only when the supervisor password has been set.
- If both the supervisor and user passwords are set, you can enter any of them for starting up the system and/or entering BIOS Setup. However, the user password only allows you to view the settings of certain items.
- A password setting is applied right after it is confirmed. To cancel a password, leave the password empty by pressing the **Enter** key.
- **Set Supervisor/User Password** sets the supervisor/user password. You can set the supervisor/user password to be required for starting up the system and/or entering BIOS Setup.
- **Power on Password** allows you to enable or disable the entering of password for booting up your system.
- **Secure Boot Configuration** (This item appears only when the password has been set.)

**Secure Boot** enables or disables Boot. Secure Boot is a feature that helps prevent unauthorized firmware, operating systems, or UEFI drivers from running at boot time.

**Delete all Security Boot keys** deletes all secure boot variables.

**Restore Factory Defaults** resets secure boot variables to manufacturing defaults

- **TPM Setup Menu**

**TPM Support** enables or disables TPM (Trusted Platform Module) support. TPM (Trusted Platform Module) is a component on your computer's mainboard that is specifically designed to enhance platform security by providing a protected space for key operations and other security critical tasks.

**Change TPM Status** allows you to select between *No Operation* and *Clear*.

## Boot Menu

The Boot menu sets the sequence of the devices to be searched for the operating system.

- **Boot Type Order** determines the boot order. You can rearrange the order by dragging the boot device name up or down in the list.
- Each boot device can be individually set to *On* or *Off*. If you want to exclude a boot device from the boot order, set the device to *Off*.

## Exit Menu

The Exit menu displays ways of exiting BIOS Setup Utility. After finishing with your settings, you must save and exit so that the changes can take effect.

- **Exit Saving Changes** saves the changes you have made and exits BIOS Setup Utility.
- **Exit Discarding Changes** exits BIOS Setup Utility without saving the changes you have made.
- **Load Setup Defaults** loads the factory default values for all the items.
- **Discard Changes** restores the previous values for all the items.

- **Saves Changes** saves the changes you have made.

# Chapter 5

## *Using Getac Software*

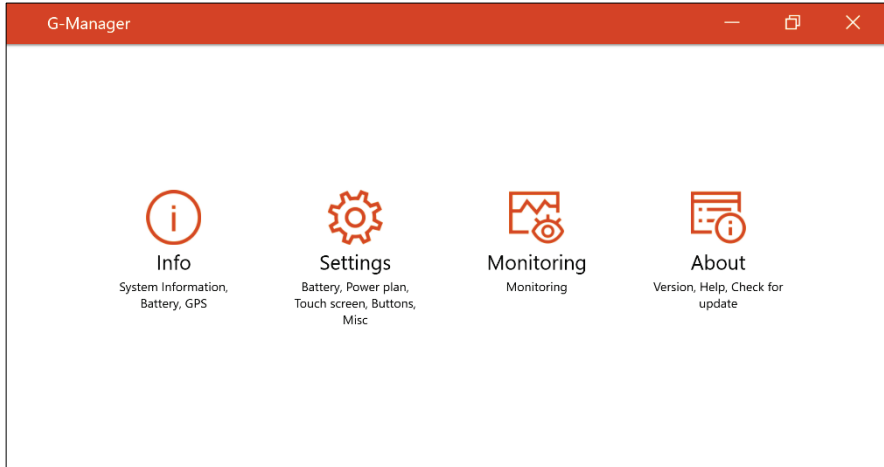
Getac software includes application programs for specific computer components and utility programs for overall management.

This chapter briefly describes the programs.

**NOTE:** Depending on your model, the actual items and information appearing on the screen may differ from those shown in this manual.

# G-Manager

G-Manager allows you to view, manage, and configure several system functions and features. The G-Manager home menu presents four categories. Select a category name to open it.



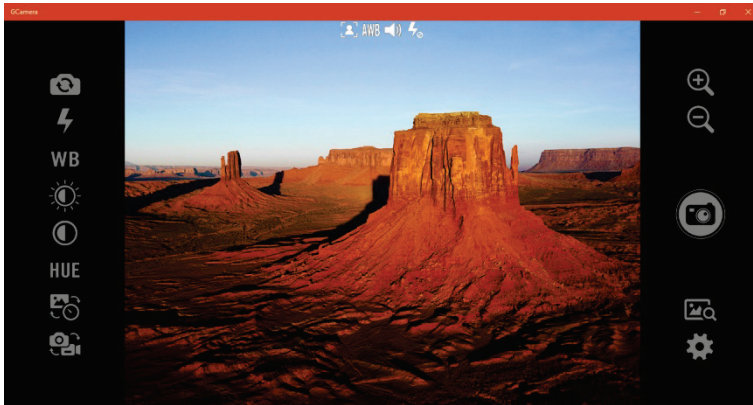
For detailed information, see the program's online help. Select **About** → **About** → **Help**.

# G-Camera

G-Camera is a geo-tagging camera application. Geographical information can be embedded into JPEG files as EXIF 2.2 metadata.


**NOTE:** G-Camera uses the standard location service of Windows.

To start the G-Camera application, select  → G-Camera.



In the middle is the preview window with status display. At the two sides are various buttons.

For detailed information on the program, see the program's online help. Tap

 → Help.

# Chapter 6

## *Care and Maintenance*

Taking good care of your Tablet PC will ensure a trouble-free operation and reduce the risk of damage to your Tablet PC.

This chapter gives you guidelines covering areas such as protecting, storing, cleaning, and traveling.

# Taking Care of the Tablet PC

## Location Guidelines

- For optimal performance, use the Tablet PC where the recommended temperature is between 0 °C (32 °F) and 50 °C (122 °F). (Actual operating temperature depends on product specifications.)
- Avoid placing the Tablet PC in a location subject to high humidity, extreme temperatures, mechanical vibration, direct sunlight, or heavy dust. Using in extreme environments for long periods can result in product deterioration and a shortened product life.
- Operating in an environment with metallic dust is not allowed.
- Place the Tablet PC on a flat and steady surface. Do not stand the Tablet PC on its side or store it in an upside-down position. A strong impact by dropping or hitting may damage the Tablet PC.
- Do not cover or block any ventilation openings on the Tablet PC. For example, do not place the Tablet PC on a bed, sofa, rug, or other similar surface. Otherwise, overheating may occur that results in damage to the Tablet PC.
- As the Tablet PC can become very hot during operation, keep it away from objects that are vulnerable to heat.
- Keep the Tablet PC at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as a TV, refrigerator, motor, or a large audio speaker.
- Avoid moving the Tablet PC abruptly from a cold to a warm place. A temperature difference of more than 10 °C (18 °F) may cause condensation inside the unit, which may damage the storage media.

## General Guidelines

- Do not place heavy objects on top of the Tablet PC as this may damage the display.
- To avoid damaging the screen, do not touch it with any sharp object.



- LCD image sticking occurs when a fixed pattern is displayed on the screen for a prolonged period of time. You can avoid the problem by limiting the amount of static content on the display. It is recommended that you use a screen saver or turn off the display when it is not in use.
- To maximize the life of the backlight in the display, allow the backlight to automatically turn off as a result of power management.

## Cleaning Guidelines

- Never clean the Tablet PC with its power on.
- Use a soft cloth moistened with water or a non-alkaline detergent to wipe the exterior of the Tablet PC.
- Gently wipe the display with a soft, lint-free cloth.
- If water or liquid is split onto the Tablet PC, wipe it dry and clean when possible. Though your Tablet PC is water-proof, do not leave it wet when you can dry it.
- If the Tablet PC gets wet where the temperature is 0°C (32°F) or below, freeze damage may occur. Make sure to dry the wet Tablet PC.

## Battery Pack Guidelines

- Recharge the battery pack when it is nearly discharged. When recharging, make sure that the battery pack is fully charged. Doing so may avoid harm to the battery pack.
- The battery pack is a consumable product and the following conditions will shorten its life:
  - when frequently charging the battery pack
  - when using, charging, or storing the battery in high temperature condition
- To avoid hastening the deterioration of the battery pack thereby prolonging its useful life, minimize the number of times you charge it so as not to frequently increase its internal temperature.
- Charge the battery pack between 10 °C ~ 30 °C (50 °F ~ 86 °F) temperature range. A low temperature will prolong the charging time as well as hasten the discharge time. A higher environment temperature will cause the battery pack's temperature to rise. Avoid charging the battery pack

inside a closed vehicle and in hot weather condition. Also, charging will not start if the battery pack is not within the allowed temperature range.

- It is recommended that you do not charge the battery pack more than once a day.
- It is recommended that you charge the battery pack with the Tablet PC's power off.
- When using battery power in an extremely low temperature environment, you may experience shortened operating time and incorrect battery level reading. This phenomenon comes from the chemical characteristics of batteries. The appropriate operating temperature for the battery is  $-10\text{ }^{\circ}\text{C}$  ~  $50\text{ }^{\circ}\text{C}$  ( $14\text{ }^{\circ}\text{F}$  ~  $122\text{ }^{\circ}\text{F}$ ).
- Do not leave the battery pack for more than six months without recharging it.

## Touchscreen Guidelines

- Use the finger or the included stylus on the display. Using a sharp or metallic object other than your finger or stylus may cause scratches and damage the display, thereby causing errors.
- Use a soft cloth to remove dirt on the display. The touchscreen surface has a special protective coating that prevents dirt from sticking to it. Not using a soft cloth may cause damage to the special protective coating on the touchscreen surface.
- Turn off the Tablet PC power when cleaning the display. Cleaning the display with the power on may cause improper operation.
- Do not use excessive force on the display. Avoid placing objects on top of the display as this may cause the glass to break thereby damaging the display.
- In low and high temperatures (below  $5\text{ }^{\circ}\text{C}$  /  $41\text{ }^{\circ}\text{F}$  and above  $60\text{ }^{\circ}\text{C}$  /  $140\text{ }^{\circ}\text{F}$ ), the touchscreen may have a slower response time or register the touch in the wrong location. It will go back to normal after returning to room temperature.
- When there is noticeable discrepancy in the operation of the touchscreen function (wrong location on intended operation or improper display resolution), refer to the Windows online Help for instructions on recalibrating the touchscreen display.

# When Traveling

- Before traveling with your Tablet PC, make a backup of your hard disk data into flash disks or other storage devices. As an added precaution, bring along an extra copy of your important data.
- Make sure that the battery pack is fully charged.
- Make sure that the Tablet PC is turned off.
- Make sure that all the connector covers are closed completely to ensure the waterproof integrity.
- Disconnect the AC adapter from the Tablet PC and take it with you. Use the AC adapter as the power source and as a battery-charger.
- Hand-carry the Tablet PC. Do not check it in as luggage.
- If you need to leave the Tablet PC in the car, put it in the trunk of the car to avoid exposing the Tablet PC to excessive heat.
- When going through airport security, it is recommended that you send the Tablet PC and flash disks through the X-ray machine (the device you set your bags on). Avoid the magnetic detector (the device you walk through) or the magnetic wand (the handheld device used by security personnel).
- If you plan to travel abroad with your Tablet PC, consult your dealer for the appropriate AC power cord for use in your country of destination.

# Chapter 7

## *Troubleshooting*

Computer problems can be caused by hardware, software, or both. When you encounter any problem, it might be a typical problem that can easily be solved.

This chapter tells you what actions to take when solving common computer problems.

# Preliminary Checklist

Here are helpful hints to follow before you take further actions when you encounter any problem:

- Try to isolate which part of the Tablet PC is causing the problem.
- Make sure that you turn on all peripheral devices before turning on the Tablet PC.
- If an external device has a problem, make sure that the cable connections are correct and secure.
- Make sure that the configuration information is properly set in the BIOS Setup program.
- Make sure that all the device drivers are correctly installed.
- Make notes of your observations. Are there any messages on the screen? Do any indicators light? Do you hear any beeps? Detailed descriptions are useful to the service personnel when you need to consult one for assistance.

If any problem persists after you follow the instructions in this chapter, contact an authorized dealer for help.

# Solving Common Problems

## Battery Problems

**The battery does not charge (Battery indicator does not light amber).**

- Make sure that the AC adapter is properly connected.
- Make sure that the battery is not too hot or cold. Allow time for the battery pack to return to room temperature.
- If the battery doesn't charge after it has been stored in very low temperatures, try disconnecting and reconnecting the AC adapter to solve the problem.
- Make sure that the battery pack is installed correctly.
- Make sure that the battery terminals are clean.

**The operating time of a fully charged battery becomes shorter.**

- If you often partially recharge and discharge, the battery might not be charged to its full potential. Initialize the battery to solve the problem.

**The battery operating time indicated by the battery meter does not match the actual operating time.**

- The actual operating time can be different from the estimated time, depending on how you are using the Tablet PC. If the actual operating time is much less than the estimated time, initialize the battery.

## Bluetooth Wireless Transmission Problems

**I cannot connect to another device with Bluetooth wireless technology.**

- Make sure that both devices have activated Bluetooth feature.
- Make sure that the distance between the two devices is within the limit and that there are no walls or other obstructions between the devices.
- Make sure that the other device is not in "Hidden" mode.
- Make sure that both devices are compatible.

# Display Problems

## **Nothing appears on the screen.**

- During operation, the screen may automatically turn off as a result of power management. Press any key to see if the screen comes back.
- The brightness level might be too low. Increase the brightness.

## **The characters on the screen are dim.**

- Adjust the brightness and/or contrast.

## **The display brightness cannot be increased.**

- As a protection, the display brightness will be fixed at a low level when the surrounding temperature is too high or too low. It is not a malfunction in this situation.

## **Bad dots appear on the display at all times.**

- A small number of missing, discolored, or bright dots on the screen are an intrinsic characteristic of TFT LCD technology. It is not regarded as a LCD defect.

## **Clouding (or called “mura”) happens on the screen when you exert forces on the left or right side of the LCD frame.**

- This is a normal phenomenon, not a defect.

# Hardware Device Problems

## **The Tablet PC does not recognize a newly installed device.**

- The device may not be correctly configured in the BIOS Setup program. Run the BIOS Setup program to identify the new type.
- Make sure if any device driver needs to be installed. (Refer to the documentation that came with the device.)
- Make sure if the device needs any jumper or switch settings. (Refer to the documentation that came with the device.)
- Check the cables or power cords for correct connections.

- For an external device that has its own power switch, make sure that the power is turned on.

## Power Management Problems

### **The Tablet PC does not enter Sleep or Hibernation mode automatically.**

- If you have a connection to another computer, the Tablet PC does not enter Sleep or Hibernation mode if the connection is actively in use.
- Make sure that the Sleep or Hibernation time-out is enabled.

### **The Tablet PC does not enter Sleep or Hibernation mode immediately.**

- If the Tablet PC is performing an operation, it normally waits for the operation to finish.

### **The Tablet PC does not resume from Sleep or Hibernation mode.**

- The Tablet PC automatically enters Sleep or Hibernation mode when the battery pack is empty. Do any one of the following:
  - Connect the AC adapter to the Tablet PC.
  - Replace the empty battery pack with a fully charged one.

## Sensor Problems

### **The built-in digital compass doesn't seem to be accurate.**

- Rotating the display can affect the accuracy of the digital compass. This is normal, not a malfunction. The sensors for the compass require periodic recalibration. Follow this method to recalibrate the sensors:
  1. Make sure you are far away from any large metal objects or magnetic fields.
  2. Start an application that utilizes the digital compass.
  3. Hold the Tablet PC level with the horizon, with the LCD side facing up.
  4. Rotate the Tablet PC 360° at least three times around each axis (X, Y, and Z) as shown below.





## Software Problems

**An application program does not work correctly.**

- Make sure that the software is correctly installed.
- If an error message appears on the screen, consult the software program's documentation for further information.
- If you are sure the operation has stop, reset the Tablet PC.

## Sound Problems

**No sound is produced.**

- Make sure that the volume control is not set too low. Increase the volume.
- Make sure that the sound is not muted.

- Make sure that the Tablet PC is not in Sleep mode.
- If using an external speaker, make sure that the speaker is properly connected.

### **Distorted sound is produced.**

- Make sure that the volume control is not set too high or too low. In most cases, a high setting can cause the audio electronics to distort the sound.

## **Startup Problems**

### **When you turn on the Tablet PC, it does not respond and the Power Indicator does not light green.**

- If you are using an external AC power, make sure that the AC adapter is correctly and securely connected. If so, make sure that the electrical outlet works properly.
- If you are using the battery power, make sure that the battery is not discharged.

### **When you turn on the Tablet PC, it stops after POST.**

- Reset your Tablet PC.

## **WLAN Problems**

### **I cannot use the WLAN feature.**

- Make sure that the WLAN feature is turned on.

### **Transmission quality is poor.**

- Your Tablet PC may be in an out-of-range situation. Move your Tablet PC closer to the Access Point or another WLAN device it is associated with.
- Check if there is high interference around the environment and solve the problem as described next.

### **Radio interference exists.**

- Move your Tablet PC away from the device causing the radio interference such as microwave oven and large metal objects.

- Plug your Tablet PC into an outlet on a different branch circuit from that used by the affecting device.
- Consult your dealer or an experienced radio technician for help.

### **I cannot connect to another WLAN device.**

- Make sure that the WLAN feature is turned on.
- Make sure that the SSID setting is the same for every WLAN device in the network.
- Your Tablet PC is not recognizing changes. Restart the Tablet PC.
- Make sure that the IP address or subnet mask setting is correct.

### **I cannot communicate with the computer in the network when Infrastructure mode is configured.**

- Make sure that the Access Point your Tablet PC is associated with is powered on and all the LEDs are working properly.
- If the operating radio channel is in poor quality, change the Access Point and all the wireless station(s) within the BSSID to another radio channel.
- Your Tablet PC may be in an out-of-range situation. Move your Tablet PC closer to the Access Point it is associated with.
- Make sure that your Tablet PC is configured with the same security option (encryption) to the Access Point.
- Use the Web Manager/Telnet of the Access Point to check whether it is connected to the network.
- Reconfigure and reset the Access Point.

### **I cannot access the network.**

- Make sure that the network configuration is appropriate.
- Make sure that the user name or password is correct.
- You have moved out of range of the network.
- Turn off power management.

# Other Problems

## **The date/time is incorrect.**

- Correct the date and time via the operating system or BIOS Setup program.
- After you have performed everything as described above and still have the incorrect date and time every time you turn on the Tablet PC, the RTC (Real-Time Clock) battery is at the end of its life. Call an authorized dealer to replace the RTC battery.

# Resetting the Tablet PC

You may have to reset (reboot) your Tablet PC on some occasions when an error occurs and the program you are using hangs up.


If you are sure the operation has stopped and you cannot use the “restart” function of the operating system, reset the Tablet PC.

Reset the Tablet PC by any one of these methods:

- Press and hold the power button for more than 10 seconds to force the system to turn off. Then turn on the power again.
- Press **Ctrl+Alt+Del** on the keyboard (if connected). This opens the **Ctrl-Alt-Del** screen where you can select actions including **Restart**.

# System Recovery

## Using Windows RE

Windows 10 has a recovery environment (Windows RE) that provides recovery, repair, and troubleshooting tools. The tools are referred to as Advanced Startup Options. You can access these options by selecting  → **Settings** → **Update & security**. There are several choices:

- **System Restore**  
This option allows you to restore Windows to an earlier point in time if you have created a restore point.
- **Recover from a drive**  
If you have created a recovery drive on Windows 10, you can use the recovery drive to reinstall Windows.
- **Reset this PC**  
This option allows you to reinstall Windows with or without keeping your files.

See Microsoft website for more information.

### NOTE:

- If you are in a situation where your computer won't boot into Windows, you can access the Advanced Startup Options by running the BIOS Setup Utility and selecting **Advanced** → **Windows RE**.
- System recovery for Windows 10 typically will take several hours to complete.

# Using Recovery Partition

When necessary, you can restore your Windows 10 system to the factory default state by using the “recovery partition” feature. Recovery partition is a portion of your hard disk drive that is set aside by the manufacturer to hold the original image of your system.

## **WARNING:**

- Using this feature will reinstall Windows to your system and configure it to the system’s factory default settings. All data on the hard disk drive will be lost.
- Make sure that power is not interrupted during the recovery process. An unsuccessful recovery may result in Windows startup problems.

To restore your system to the factory default state:

1. Connect the AC adapter.
2. Run BIOS Setup Utility. Select **Advanced** → **Recovery Partition**. (See Chapter 4 for more information.)
3. Follow the onscreen instructions to complete the process.

# Using the Driver Disc (Optional)

**NOTE:** You can download the latest drivers and utilities from Getac website at <http://www.getac.com> → **Support**.

The Driver disc contains drivers and utilities required for specific hardware in your Tablet PC.

Since your Tablet PC comes with drivers and utilities pre-installed, you normally do not need to use the Driver disc. In case you want to manually install Windows, you will have to install the drivers and utilities one by one after installing Windows.

To manually install drivers and utilities:

1. Start up the Tablet PC.
2. Prepare an external CD/DVD drive (with USB connection). Connect the drive to your Tablet PC. Wait for the Tablet PC to recognize the drive.
3. Insert the Driver disc. Make sure you use the disc that matches the Windows version of your Tablet PC.
4. The autorun program should automatically start. You will see the installation menu. Tap **NEXT** to go to the next page if there is more than one.
5. To install a driver or utility, just tap the particular button and follow the onscreen instructions to complete the installation.



# Appendix A

## Specifications


**NOTE:** Specifications are subject to change without any prior notice.

Parts		Specifications
CPU		Intel Atom® x5-Z8350 Processor, 4 core, base frequency 1.44 GHz, burst frequency 1.92 GHz, 2MB cache
BIOS		Insyde, Flash EEPROM, supporting UEFI
RAM		4GB LPDDR3
Video	Controller	UMA - Intel® HD Graphics
	Display Panel	8-inch TFT LCD, 1280 x 800 WXGA, sunlight readable, 600 Nits
Touchscreen		Capacitive multi-touch screen - 10 point, glove enabled touch, palm rejection, water rejection (large area of spilled water will not be registered as input)
Audio	Features	Azalia, High Definition audio
	Speaker	Integrated
	Microphone	Integrated
Storage Device		eMMC, 128GB
I/O port		Docking
Wireless LAN + Bluetooth		Wi-Fi 802.11 a/b/g/n, Bluetooth 4.0+ EDR
WWAN (option)		3G/4G LTE
GPS		Dedicated GPS
Camera		Front: 2 MP HD, fixed focus Rear: 8 MP, autofocus, LED, video capture

Parts		Specifications
NFC/RFID reader		HF RFID reader Protocol: ISO 14443–(A,B), MIFARE, ISO 15693
Power	AC adapter	100-240VAC, 50/60Hz, 12V/2A, 24Watts
	Battery pack	Lithium-ion, 7.4V, 4200mAh
Dimension (LxWxD)		240 x 155 x 29 mm (9.4 x 6.1 x 1.14 inch)
Weight		1500 g (3.3 lb)
Charging cradle		USB 2.0 x 3, RJ45 (10/100 Mbps Ethernet) x 1, AC jack x 1

## Button Functions on Special Occasions

On “POST/BIOS Setup/Non-ACPI” occasions, the five hardware buttons provide keyboard key functions as described below.

Button	Function
P1	Esc
P2	Tab
	Enter
+	↑ Up
-	↓ Down

## Appendix B

# *Regulatory Information*

This appendix provides regulatory statements and safety notices on your Tablet PC.

**NOTE:** Marking labels located on the exterior of your Tablet PC indicate the regulations that your model complies with. Please check the marking labels and refer to the corresponding statements in this appendix. Some notices apply to specific models only.

# On the Use of the System

## Class B Regulations

### USA

#### Federal Communications Commission Radio Frequency Interference Statement

##### NOTE:

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 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.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

##### Please note:

The use of a non-shielded interface cable with this equipment is prohibited.

**Company name:** Getac USA

**Address:** 15495 Sand Canyon Rd., Suite 350 Irvine, CA 92618 USA

**Phone:** 949-681-2900

## Canada

### Canadian Department of Communications Radio Interference Regulations Class B Compliance Notice

This Class B digital apparatus meets all requirements of the Canada Interference-Causing equipment regulations.

Cet appareil numérique de Classe B respecte toutes les exigences du Règlement Canadien sur le matériel brouilleur.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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

## Safety Notices

### About the Battery

#### Caution Texts Concerning Lithium Batteries

##### DANISH

ADVARSEL! Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

##### NORWEGIAN

ADVARSEL: Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

##### SWEDISH

WARNING: Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

##### FINNISH

VAROITUS: Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

## **ENGLISH**

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

## **DEUTSCH**

**VORSICHT:** Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleich-wertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

## **FRENCH**

**ATTENTION:** Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

### **Attention (for USA Users)**

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.

## **About the AC Adapter**

- Use only the AC adapter supplied with your Tablet PC. Use of another type of AC adapter will result in malfunction and/or danger.
- Do not use the adapter in a high moisture environment. Never touch the adapter when your hands or feet are wet.
- Allow adequate ventilation around the adapter when using it to operate the device or charge the battery. Do not cover the AC adapter with paper or other objects that will reduce cooling. Do not use the AC adapter while it is inside a carrying case.
- Connect the adapter to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the adapter if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

# On the Use of the RF Device

## USA and Canada Safety Requirements and Notices

### Radio Frequency Interference Requirements and SAR

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

### EMC Requirements

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

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

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The FCC limits are designed to provide reasonable protection against harmful interference when the equipment is installed and used in accordance with the instruction manual and operated in a commercial environment. However, there is no guarantee that interference will not occur in a particular commercial installation, or if operated in a residential area.

If harmful interference with radio or television reception occurs when the device is turned on, the user must correct the situation at the user's own expense. The user is encouraged to try one or more of the following corrective measures:

- 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.

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

## Canada Radio Frequency Interference Requirements

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

## European Union CE Marking and Compliance Notices

### Statements of Compliance

#### English

This product follows the provisions of the European Directive 2014/53/EU.

#### Danish

Dette produkt er i overensstemmelse med det europæiske direktiv 2014/53/EU.

#### Dutch

Dit product is in navolging van de bepalingen van Europees Directief 2014/53/EU.



**Finnish**

Tämä tuote noudattaa EU-direktiivin 2014/53/EU määräyksiä.

**French**

Ce produit est conforme aux exigences de la Directive Européenne 2014/53/EU.

**German**

Dieses Produkt entspricht den Bestimmungen der Europäischen Richtlinie 2014/53/EU.

**Greek**

Το προϊόν αυτό πληροί τις προβλέψεις της Ευρωπαϊκής Οδηγίας 2014/53/EU.

**Icelandic**

Þessi vara stendst reglugerð Evrópska Efnahags Bandalagsins númer 2014/53/EU.

**Italian**

Questo prodotto è conforme alla Direttiva Europea 2014/53/EU.

**Norwegian**

Dette produktet er i henhold til bestemmelsene i det europeiske direktivet 2014/53/EU.

**Portuguese**

Este produto cumpre com as normas da Diretiva Europeia 2014/53/EU.

**Spanish**

Este producto cumple con las normas del Directivo Europeo 2014/53/EU.

**Swedish**

Denna produkt har tillverkats i enlighet med EG-direktiv 2014/53/EU.

**Notices****CE Max power:**

WLAN 2.4G: 13.1 dBm


WLAN 5G: 11.63 dBm



BT: 4.2 dBm

NFC: -10 dBuA/m at 10m

WWAN: 22.95 dBm

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

 	<p><b>Waste Electrical and Electronic Equipment (WEEE)</b></p> <p>This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.</p>
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## RF Exposure Information (SAR)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. SAR limits are 1.6 Watts per kilogram (over a volume containing a mass of 1 gram of tissue) in countries that follow the United States FCC limit and 2.0 W/kg (averaged over 10 grams of tissue) in countries that follow the Council of the European Union limit. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

This device was tested with a separation distance of 5 mm. Always keep this device away from your body to ensure exposure levels remain at or below the as-tested levels.

# User Notification of Take-back Service

To Institutional (B2B) Users in United States:

Getac believes in providing our institutional customers with easy-to-use solutions to recycle your Getac-brand products for free. Getac understands the institutional customers will likely be recycling multiple items at once and as such. Getac wants to make the recycling process for these larger shipments as streamlined as possible. Getac works with recycling vendors with the highest standards for protecting our environment, ensuring worker safety, and complying with global environmental laws. Our commitment to recycling our old equipment grows out of our work to protect the environment in many ways.

Please see the product type below for information on Getac product, battery and packaging recycling in USA.

- **For Product Recycling:**  
Your portable Getac products contain hazardous materials. While they pose no risk to you during normal use, they should never be disposed with other wastes. Getac provides a free take-back service for recycling your Getac products. Our electronics recycler will provide competitive bids for recycling non-Getac products as well.
- **For Battery Recycling:**  
The batteries used to power your portable Getac products contain hazardous materials. While they pose no risk to you during normal use, they should never be disposed with other wastes. Getac provides a free take-back service for recycling your batteries from Getac products.
- **For Packaging Recycling:**  
Getac has chosen the packaging materials used to transport our products carefully, to balance the requirements of shipping the product to you safely while minimizing the amount of material used. The materials used in our packaging are designed to be recycled locally.

If you have the above for recycling, please visit our website <https://us.getac.com/aboutgetac/environment.html>

# California Proposition 65

For California USA:

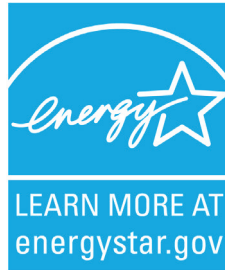
Proposition 65, a California law, requires warnings to be provided to California consumers when they might be exposed to chemical(s) identified by Proposition 65 as causing cancer and birth defects or other reproductive harm.

Almost all electronic products contain 1 or more of the chemicals listed under Proposition 65. This does not mean the products pose a significant risk of exposure. As the consumers have the right to know about the products they purchase, we are giving this warning on our packaging and user manual to keep our consumers well informed.



This product can expose you to chemicals including lead, TBBPA or formaldehyde, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# ENERGY STAR 6.1



ENERGY STAR® is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Please reference ENERGY STAR® related information from <http://www.energystar.gov>.

As an ENERGY STAR® Partner, Getac Technology Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

An ENERGY STAR® qualified computer uses 70 % less electricity than computers without enabled power management features.

## Earning the ENERGY STAR®

- When every home office is powered by equipment that has earned the ENERGY STAR®, the change will keep over 289 billion pounds of greenhouse gases out of the air.
- If left inactive, ENERGY STAR® qualified computers enter a low-power mode and may use 15 watts or less. New chip technologies make power management features more reliable, dependable, and user-friendly than even just a few years ago.
- Spending a large portion of time in low-power mode not only saves energy, but helps equipment run cooler and last longer.
- Businesses that use ENERGY STAR® enabled office equipment may realize additional savings on air conditioning and maintenance.

- Over its lifetime, ENERGY STAR® qualified equipment in a single home office (e.g., computer, monitor, printer, and fax) can save enough electricity to light an entire home for more than 4 years.
- Power management (“sleep settings”) on computers and monitors can result in much savings annually.

## Remember, saving energy prevents pollution

Because most computer equipment is left on 24 hours a day, power management features are important for saving energy and are an easy way to reduce air pollution. By using less energy, these products help lower consumers’ utility bills, and prevent greenhouse gas emissions.

## Getac Product Compliance

All Getac products with ENERGY STAR® logo comply with the ENERGY STAR® standard, and the power management feature is enabled by default. As recommended by the ENERGY STAR® program for optimal energy savings, the computer is automatically set to sleep after 15 minutes (in battery mode) and 30 minutes (in AC mode) of user inactivity. To wake up the computer, press the power button.

If you want to configure power management settings such as inactivity time and ways to initiate/end Sleep mode, go to **Power Options** by right-clicking the battery icon on the Windows taskbar and then selecting **Power Options** in the pop-up menu.

Please visit <http://www.energystar.gov/powermanagement> for detail information on power management and its benefits to the environment.