

M101B, M101BL

Rugged Windows Tablet

Intel® Celeron® Quad Core N2930, 1.83 GHz

Windows 10 IoT Enterprise

Windows Embedded 8.1 Industry Pro

Windows 7 Pro for Embedded Systems



Quick Start Guide

Document Version V1.2

Document Part Number: 9152101K100A

Please read these instructions carefully before using this product, and save this manual for future use.

Safety Information

Follow and adhere to all warnings and instructions in this manual. For your safety, please read all safety and operating instructions before using the product.



Precaution on Battery Pack

- Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example) Generation of heat, ignition or rupture may result
- Do Not Disassemble, Modify, or Insert Sharp Objects Into the Battery Pack. Electrolyte leakage, generation of heat, ignition or rupture may result.
- Do Not Short the Positive (+) and Negative (-) Terminals of the Battery. Generation of heat, ignition or rupture may result. When carrying or storing the device, do not place the battery pack together with articles that may contact electricity.
- Do Not Apply Shocks to the Battery by Dropping It or Applying Strong Pressure to It. Electrolyte leakage, generation of heat, ignition or rupture of battery may occurs.
- Do Not Charge the Battery Other Than Methods Those Specified In This Manual. If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.
- When the Battery Pack Has Deteriorated, Replace It with a New Battery. Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.
- Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.



General Product Safety

- This product should not be used near water such as bathtubs, sinks, swimming pools, wet basement, etc.
- Do not block any ventilation openings. Do not place the product against a wall or in an enclosed space as doing so might impede the flow of cooling air.
- Do not place the product near any heat sources such as radiators, warm air intakes, stoves or other heat-generating devices (including amplifiers or other heat producing equipment).
- Refer all servicing to qualified service personnel. A technical intervention is required when the apparatus has been damaged in any way, for example if the power cord or plug is damaged, liquid has been spilled or objects have fallen inside the unit, if the product has been exposed to rain or moisture, if it does not operate normally or if it has been dropped.
- Do not disregard the safety that a polarized or grounded connection can provide. A polarized connection consists of two plugs, one of which is larger than the other. A grounded connection has two blades and a third one that is grounded. If the main plug provided cannot be inserted into your outlet, consult an electrician to replace your obsolete outlet.
- Protect the power cord from being crushed or pinched, particularly in the area of the plugs, any receptacles used, and the point of exit from the apparatus. Do not break off the ground pin of the power cord.

- Do Not Use the Battery Pack With Any Other Products. The battery pack is rechargeable and is only designed for this specific product. If it is used with a product other than the specified product, electrolyte leakage, generation of heat, ignition or rupture may result.

- Do Not Use This Product With Battery Other Than the One Specified.



General Product Safety

- Do not use excessive force on the display. Avoid placing objects on top of the display as this may cause the glass to break.
- When there is a noticeable discrepancy in the operation of the touchscreen function (your touch does not correlate to the proper location on the screen), recalibrate the touchscreen display.

- Use only accessories specified by the manufacturer.



General Product Safety

- Use only with its transport carriage, stand, tripod, console or table specified by the manufacturer or sold with the product. When using a carriage, move the carriage assembly with the product carefully to avoid damage from falling over.
- Unplug this apparatus during lightning storms or when it is not being used for long periods.

Handling and Maintenance

Follow and adhere to all warnings and instructions in this manual. For the longevity of the product usage, please read all operating instructions before using the product.



General Guideline

- Keep the product at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as TV, refrigerator, motor, or a large audio speaker.
- Do not place heavy objects on top of the tablet computer as this may damage the display.
- The screen surface can be easily scratched. Use with care. Do not use paper towels to clean the display but use the included cleaning cloth. Avoid touching it with a pen or pencil.
- To maximize the life of the backlight in the display, allow backlight to automatically turn off as a result of power management. Avoid using a screen saver or other software that prevents the power management from working.
- It is recommended to reboot the device when some functions are defect or inactive. If it still can't solve the problems please contact your dealer or agent.



Cleaning Guideline

- Use a soft cloth moistened with water or a non-alkaline detergent to wipe the exterior of the product.
- Gently wipe the display with a soft, lint-free cloth. Do not use alcohol or detergent on the product.



Touchscreen Guideline

- Use your finger or the stylus on the display. Using sharp or metallic object may cause scratches and damage the display, thereby causing errors.

Getting Started

Congratulations on purchasing Winmate® M101B Rugged Tablet Computer. The rugged design allows you to use it in harsh outdoor environments.

This quick start guide tells you step by step how to get the Tablet Computer up and running. You will find instructions for the following procedures:

- [Unpacking](#)
- [Description of Parts](#)
- [HotKey for Specific Functions](#)
- [First Time Operations](#)
- [Powering On/Off](#)
- [Settings up Windows OS for the First Time](#)
- [Using Hottab Utility](#)
- [Setting Up Touch Mode](#)
- [Replacing The Main Battery](#)

Unpacking

Check and identify the supplied accessories:

- Tablet Computer



- Standard Battery



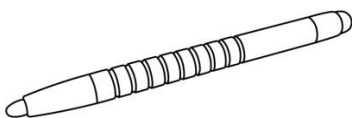
- Power Adapter



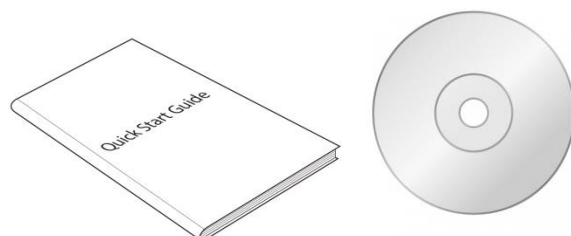
- Power Cord and Plugs



- Capacitive Touch Stylus

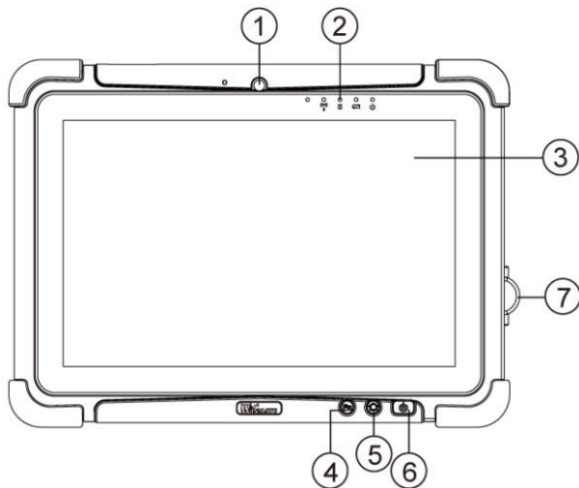


- Quick Start Guide & Driver CD

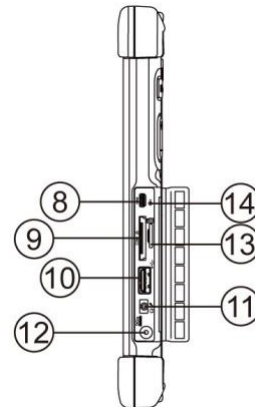


Description Of Parts

Front:

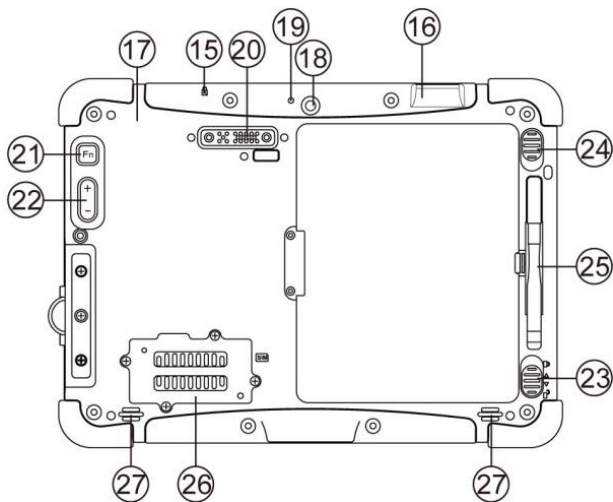


Right:

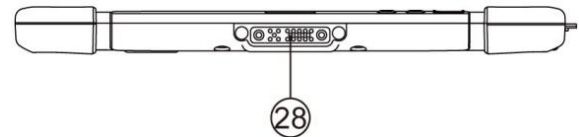


No	Item	Description
1	Front Camera	2 Megapixel Webcam
2	LED Indicators:	Show the current status of the Tablet Computer
	Front LED Indicators Detail:	
3	Touch Screen	Display and act as one of the inputs for the Tablet Computer
4	Fn1 Button	Programmable function key configured by Hottab Utility
5	Menu Button	Hottab Quick Access
6	Power Button	Power on/off tablet
7	I/O Cover	Protect I/O ports

No	Item	Description
8	Micro HDMI	HDMI output to external display
9	LAN/RS232	Adapter port for LAN/RS232 connector
10	USB 3.0	High speed USB port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc.
11	Mic In/Line Out	Headset or headphone can be connected (Mic is only supported with 3.5mm 4-pin headset)
12	Power Jack	DC-IN power input jack
13	MicroSD Card Reader	Memory card reader port for MicroSD Card
14	Reset Button	Hardware reset button

Rear:

No	Item	Description
15	Kensington Lock Port	Provide lock access for Kensington Lock.
16	Optional Barcode	Barcode Scanner for reading of 1D/2D barcode.
17	Optional RFID	RFID reader for reading of RFID tags.
18	Rear Camera	5MP Autofocus Camera. Captures photos and videos.
19	Camera Flash	LED camera flash to provide flash lighting when use with camera.
20	Expansion Port	Provide optional connectivity to custom modules for special application (USB2.0 x 1 , RS232 x 1).
21	Fn2 Button	Programmable function key configured by Hottab Utility
22	Volume Buttons	Volume Control. (+) Raise volume, (-) Lower volume.
23	Battery Lock Latch	Latch to lock the battery in place once battery is inserted. Not spring-loaded.
24	Battery Release Slider	Spring-loaded slider that latches the battery in.

Bottom:

No	Item	Description
25	Touch Pen Slot	Pen holder slot to store touch pen
26	3G / LTE Module / SIM card slot	Service window to insert Micro SIM card. Also provide access to 3G / LTE Module.
27	Speakers	Emit sounds.
28	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna

HotKey For Specific Functions

For the physical buttons on the tablet computer, in addition to its dedicated functions detailed in the previous section, it can also be used to emulate commonly used keyboard key strokes. Under different scenario, a single physical button or a combination of physical buttons provide different keyboard key strokes, which are specified below:





Under POST (before Windows boots up):

Buttons	Keystroke
Menu	F7 to enter BIOS setup screen
Fn1	F6 to enter Recovery Menu
Fn2	ESC
Volume Up (+)	Up
Volume Down (-)	Down
Menu + Fn1	Enter
Menu + Volume Up (+)	Right
Menu + Volume Down (-)	Left

Under Windows:

Buttons	Keystroke
Menu	Hottab Quick Access
Fn1	Default: Web Browser
Fn2	Default: Camera
Volume UP (+)	Raise volume
Volume Down (-)	Lower volume.
Power	Power ON/ OFF
Volume Up (+) + Volume Down (-)	Ctrl + Alt + Del

LED Indicators:

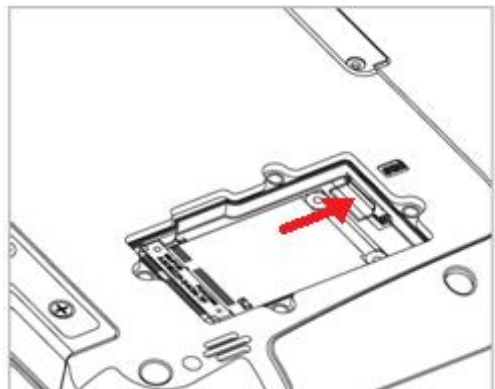
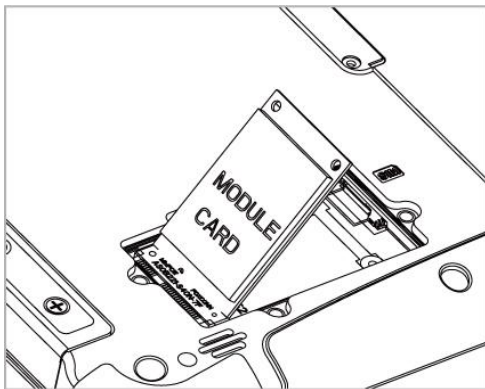
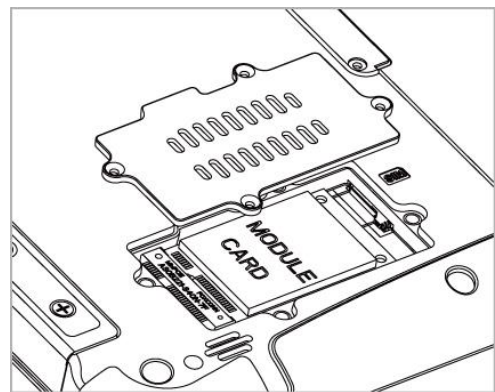
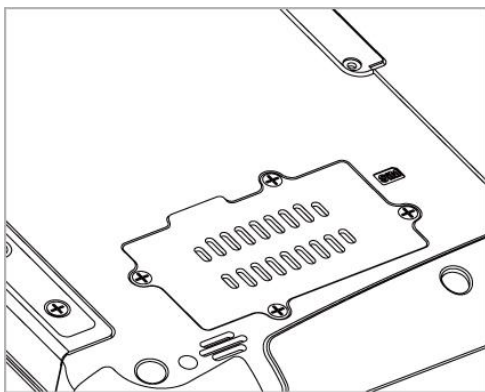
Item		Description
Power Indicator		Blue – Tablet is ON No light – Tablet is OFF
Battery Status		Orange –AC adapter is plugged in and charging Green –AC adapter is plugged in and battery is full charged Solid Red - Low battery (<10%) Blinking Red – Battery is being hot swapped. No light – Battery is in use and more than 10%
Disk Activity Indicator		Green - Disk Activity No light - Disk Idling
RF Communication		Green - One of WiFi/BT/WWAN/GPS is ON No light - WiFi/BT/WWAN/GPS are all OFF

First-time Operation

Inserting SIM card (For Optional 3G/LTE equipped device)

The Tablet Computer supports data connection using 3G/LTE SIM cards and fits a Micro-SIM card (**Note:** 3G/LTE feature is optional). Perform the following to install the SIM card into your Tablet Computer:

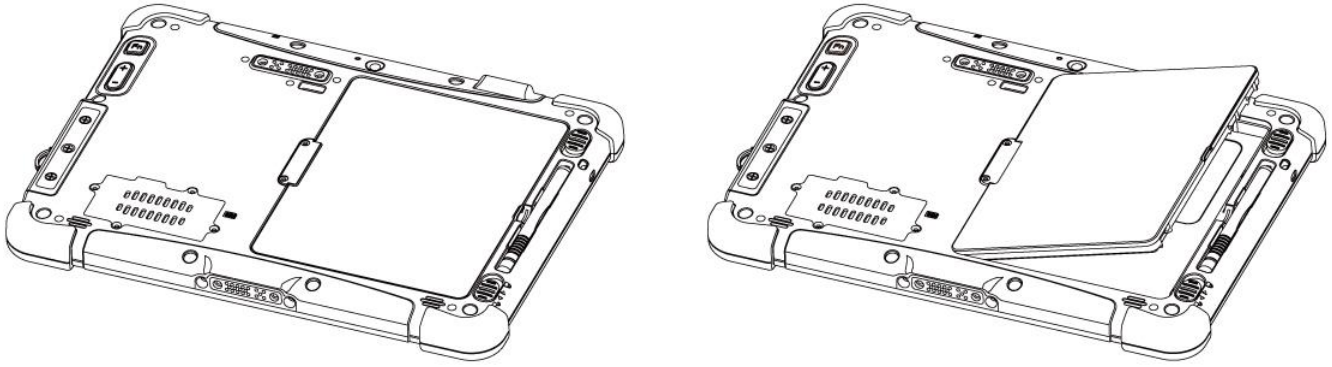
1. Remove the service window in the rear by unscrewing the four screws.
2. Remove the screw that is securing the 3G/LTE module.
3. Carefully lift the 3G wireless module up, and be careful not to damage the connected cable.
4. Make sure the SIM card IC contact patch is faced down; the notch is in the direction of insertion (towards right).
5. Insert the 3G SIM card into the slot located near the right side of the service window.
6. Reposition the removed 3G/LTE module screw to secure the 3G/LTE module.
7. Reposition the removed service window screw to secure the service window.



Inserting Battery Pack

To insert the included standard battery pack into the Tablet Computer:

1. Disconnect any cords connected to the tablet computer.
2. Turn the tablet computer over, back facing up.
3. Locate the Battery Lock Latch and push it to the “Unlocked” position.
4. Locate the Battery Release Slider that is spring-loaded. Pull back and hold.
5. Insert the battery with the connector-pins side first, and then lower the battery into the battery compartment. Continue to hold the Battery Release Slider until the battery is fully inserted.
6. Make sure the battery is completely lowered into the compartment before letting go of the Battery Release Slider. Battery will be flat against the housing once fully inserted.



Removing the Battery Pack

1. Shut down the tablet computer (or put it to sleep). Disconnect any cords connected to the computer.
2. Turn the tablet computer over, back facing up.
3. Locate the Battery Lock Latch and push it to the “Unlocked” position.
4. Locate the Battery Release Slider that is spring-loaded. Pull back and hold.
5. Lift the battery out using the opening on side of battery compartment.

Connecting to Power Supply

The Tablet Computer operates either on external AC power or internal battery power. It is recommended to use AC power when you start up the Tablet Computer for the first time.

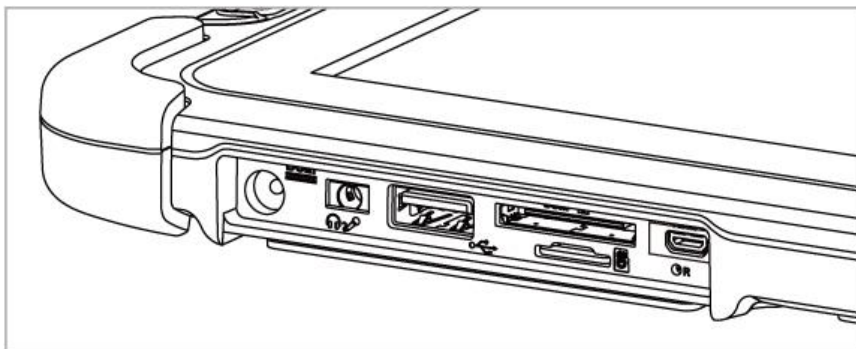


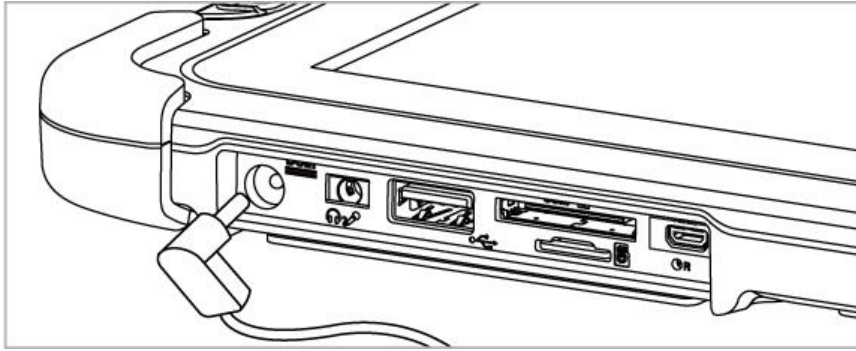
Caution

Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

Perform the following to connect the Tablet computer to AC Power:

1. On the side of the Tablet computer, lift the I/O protective cover by pulling on the latch
2. Plug the DC cord of the AC adapter into the Power Jack of the tablet computer.
3. Plug the AC power cord into the AC adapter.
4. Finally, Plug the AC power cord into the electrical outlet.





When the AC Adapter is connected, the battery pack starts charging. The battery LED indicator on the tablet computer will show different states. Please refer to description of the LED indicator in the Description of Parts.

Powering On / Off

Powering On

Press and hold the power button for **3 seconds** until the blue LED power indicator light up.

Note:



- Do not press the power button repeatedly.
- Do not perform the following operations until the Disk Activity Indicator off
 - Connecting or disconnecting the AC adapter
 - Pressing the power button
 - Touching the tablet buttons, screen, or external keyboard/mouse

Powering Off

Perform the following procedure to power off the Tablet Computer:

1. Make sure you have closed any programs that are open on the Desktop. Start Screen apps don't need to be closed.
2. Under Windows 8.1 OS, open the Charms Bar by swiping your finger from the far right of the screen towards the middle of the screen.
3. Tap on the **Settings** charm.
4. Tap on **Power**.
5. Tap on **Shut Down**.
6. Wait for Tablet Computer to power off.

Note:



- The computer will forcibly be powered off if the power button is pressed and held for **6 seconds or longer**.

Setting up Windows OS for the First Time

When setting up Windows for the first time on your computer, the procedures vary on the different versions of Windows. Some versions of Windows require entry of a product key. Refer to the following table for product key entry:

Windows Versions	Require Entry of Product Key?
Windows Embedded Standard 7 (WS7P)	No
Windows 7 Professional	Yes
Windows 7 Ultimate	Yes
Windows Embedded 8 Standard	No
Windows Embedded 8.1 Industry Pro	No
Windows 10 IoT Enterprise	No



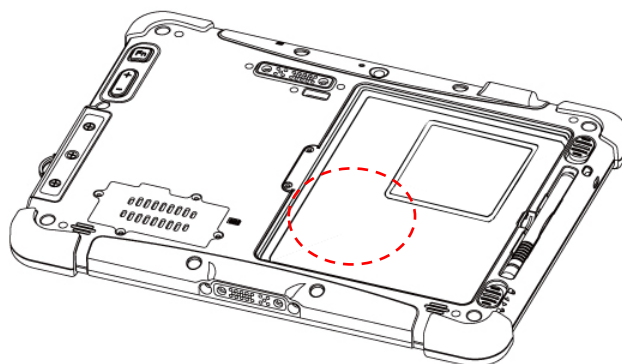
Caution

When powering on the device for the first time, please make sure there's no interruption during the Windows setting up process, for example, accidentally powering off. If it happened, please access the recovery menu by pressing **Fn1** button on the front bezel to initiate recovery process.

For more details refer to the Chapter 5, "Using Recovery Wizard to Restore Computer" of the User Manual).

Location of the Product Key

For versions of Windows that require entry of a Product Key, find the Product Key sticker located on the inside surface of the battery slot after removing the battery:




Detailed First Time Setup Instruction

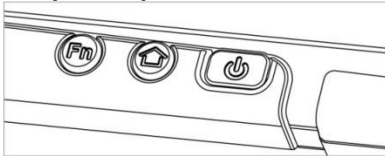
For more detailed step by step first time setup instructions, please download the latest user manual by going to <http://www.winmate.com.tw> OR refer to the digital copy of user manual included in the disk that comes with the tablet.

Using Hottab Utility

Hottab provides quick access to the tablet's functions and features, such as setting up shortcuts, using camera, powering on/off built-in devices, programming function key, and changing power management.

As Windows starts up, Hottab starts and runs in the background. To display the Hottab control utility, press the  (Menu) Button located on the front panel, OR launching the Hottab Utility application.

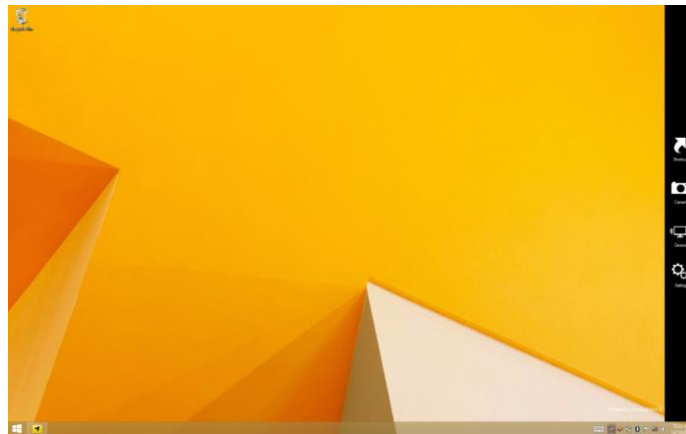
 (Menu) Button on the Front Panel:




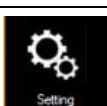


Hottab Utility Icon:




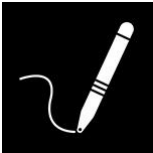

The main user interface is located on the right side of the screen. There are 4 main menu options: Shortcuts, Camera, Device ON/OFF, and Settings. Operations and functions on each menu options is explained in detail in the coming section.




	Shortcuts button allows users to configure short cut to quickly access programs with a few tabs.
	Camera button allows users take a picture or record a video. User can also adjust setting related to camera in this menu option.
	Device button enables/disables tablet computer's hardware functions. The configurable functions are Wi-Fi, WWAN(3G/4G/LTE), GPS, Bluetooth, Camera, LED indicators, Barcode Reader, RFID Reader, Expansion Port, and GPS Antenna routing options.
	Setting button provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings.

Setting Up Touch Mode

The tablet's advanced capacitive touchscreen has three built-in operating modes, for users to choose under different usage scenarios:

Mode	Usage Scenario
 <p>Hand/Rain Mode</p>	<p>The Hand/Rain mode is the default operating mode of the touchscreen. Under this mode, the touchscreen is set to have the ability to reject false touch inputs while liquid is present on the touchscreen. Once the liquid is removed from the touchscreen, touch inputs from bare fingertips will continue to operate.</p> <p>Support the following input solutions:</p> <ul style="list-style-type: none"> • Active stylus w/ palm rejection • Rubber Tip passive stylus • Finger
 <p>Stylus Mode</p>	<p>Under the Stylus mode, the touchscreen is set to have the ability to pick up touch inputs from the fine-tip passive capacitive stylus that is shipped with the tablet. Touch inputs from bare fingertips will also continue to operate.</p> <p>Support the following input solutions:</p> <ul style="list-style-type: none"> • Fine-tip passive stylus w/ palm rejection • Active stylus w/ palm rejection • Rubber Tip passive stylus • Finger
 <p>Glove Mode</p>	<p>Under the Glove mode, the touchscreen is set to have the ability to pick up touch inputs while the user is operating the touchscreen with gloves on. Touch inputs from bare fingertips will also continue to operate.</p> <p>Support the following input solutions:</p> <ul style="list-style-type: none"> • Glove • Rubber Tip passive stylus • Finger

There are two ways to switch between different touchscreen operating modes:

- (1) Via the programmable function buttons
 - a. For user it's easily to change touch modes by short pressing Function Key 1, if user wants to define the function key please check detail from user manual Chapter Four - settings)
- (2) Via the built-in HotTab utility
 - a. Open HotTab utility by pressing  (Menu) Button located on the front panel, OR launching HotTab Utility application.
 - b. Choose "**Device ON/OFF**" and then click on "**Touch Set**" icon



Replacing The Main Battery

The M101B Tablet Computer supports hot-swap of batteries, meaning the tablet doesn't need to be powered off in order to replace the main battery. To support such mechanism, there is a backup battery inside the tablet that is charged up with the main battery. This backup battery cannot be removed, and needs to have adequate power for hot swapping of main battery to be done without issue. When the backup battery is fully charged, it can sustain up to 5 minutes of runtime to allow for battery hot-swapping.

Perform the following to hot swap the batteries:

1. While the tablet is powered on, go to Hottab utility to check on the power level of the Backup battery.
2. If the Backup battery level is at "Low", please charge the tablet with AC Power until the Backup battery level is at "Medium" or "High", and do not remove the main battery.
3. If the Backup battery level is at "Medium" or "High", continue to remove the main battery.
4. Insert a new charged up removable battery into the battery compartment.
5. Go to Hottab utility to check if Main battery level can be correctly read. If not, check if the new removable battery is inserted properly.
6. If Main battery level can be read, continue to use the tablet computer.



To keep battery health and prevent possible issues from battery over-discharged, please charge the tablet built-in back-up battery once every two months.

