



# M101AD

## 10.1" Rugged Windows Tablet

Intel® Core i5-1235U Alder Lake Processor



# User Guide

Version 1.0

Document Part No. 9152101K101Z



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

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# Chapter 1: Read Me First

## 1.1 Advisory Conventions

Four types of advisories are used throughout the user manual to provide helpful information or alert you to the potential for hardware damage or personal injury. These are Notes, Important, Cautions, and Warnings. The following is an example of each type of advisory.

**Note:**

A note is used to emphasize helpful information

**Important:**

An important note indicates information that is important for you to know.



**Caution** A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.



**Attention** Unealerted attention indique un dommage possible à l'équipement et explique comment éviter le problème potentiel.



**Warning!** An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem.



**Avertissement!** Un Avertissement de Choc Électrique indique le potentiel de chocssur des emplacements électriques et comment éviterces problèmes.



## General Product Safety Sécurité générale des produits

- Do not block any ventilation openings. Do not place the product against a wall or in an enclosed space, as doing so might impede cooling airflow.
  - *[FR] Ne pas bloquer les ouvertures de ventilation. Ne pas placer le produit contre un mur ou dans un espace clos de façon à entraver la circulation de l'air de refroidissement.*
  - 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).
  - *[FR] Ne pas placer le produit près d'une source de chaleur comme des radiateurs, les arrivées d'air chaud, poèles ou autres produits générant de la chaleur (y compris les amplificateurs ou autre équipement produisant de la chaleur.)*
  - 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.
  - *[FR] Empêcher le cordon d'alimentation d'être écrasé ou pincé, en particulier dans les zones de prises, des containers utilisés, et du point de sortie de l'appareil. Ne pas casser la broche de terre du cordon d'alimentation.*
  - 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.
  - *[FR] Ne pas ignorer la sécurité qu'une prise polarisée ou une prise de terre peut prévoir. Une prise polarisée se compose de deux fiches, dont l'une est plus large que l'autre. Une prise de terre possède deux lames et une troisième qui est la terre. Si la fiche principale fournie ne peut être insérée dans votre prise, consultez un électricien pour remplacer votre prise obsolète.*
  - Use only accessories specified by the manufacturer.
- [FR] Utiliser uniquement les accessoires spécifiés par le fabricant.*

## 1.2 Safety Information

- This product should not be used near water such as bathtubs, sinks, swimming pools, wet basement, etc.  
*[FR] Ce produit ne doit pas être utilisé près de l'eau comme les baignoires, les évier, les piscines, les sous-sols humides, etc.*
- 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.  
*[FR] Utiliser uniquement avec son chariot de transport, support, trépied, console ou table spécifiés par le fabricant ou vendu avec le produit. Lors de l'utilisation d'un chariot, déplacez l'ensemble chariot avec le produit avec soin pour éviter tout dommage de chute.*
- Unplug this apparatus during lightning storms or when it is not being used for long periods.  
*[FR] Débrancher cet appareil durant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes.*
- 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.  
*[FR] Confier toute réparation à du personnel qualifié. Une intervention technique est nécessaire lorsque l'appareil a été endommagé de quelque façon, par exemple si le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés à l'intérieur de l'unité, si le produit a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il a été jeté.*



## General Guideline Directive générale

It is recommended to reboot the device when some functions are defective or inactive. If it still can't solve the problems, please contact your dealer or agent.

- *[FR] Il est recommandé de redémarrer l'appareil lorsque certaines fonctions sont défectueuses ou inactives. Si le problème persiste, veuillez contacter votre revendeur ou votre agent.*

## 1.3 Handling and Maintenance



### General Guideline Guide Général

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.

[FR] *Garder le produit au moins à 13 cm (5 pouces) de distance des appareils électriques qui peuvent générer un fort champ magnétique comme une télévision, un réfrigérateur, un moteur, ou un important haut-parleur.*

Do not place heavy objects on top of the tablet computer as this may damage the display.

[FR] *Ne pas placer d'objets lourds sur le dessus de l'ordinateur tablette cela peut endommager l'écran.*

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.

[FR] *La surface de l'écran peut être facilement rayée. Utiliser avec précaution. Ne pas utiliser de serviette en papier pour nettoyer l'écran mais utiliser le chiffon de nettoyage inclus. Éviter de toucher avec un stylo ou un crayon.*

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.

[FR] *Pour maximiser la durée de vie du rétroéclairage de l'écran, autoriser le rétroéclairage résultant de la gestion de l'alimentation. Éviter d'utiliser un économiseur d'écran ou un autre logiciel empêchant la gestion de l'alimentation de fonctionner.*



### Cleaning Guideline Guide de nettoyage

Use a soft cloth moistened with water or a non-alkaline detergent to wipe the exterior of the product.

[FR] *Utiliser un chiffon doux humidifié avec de l'eau ou un détergent non alcalin pour essuyer l'extérieur du produit.*

Gently wipe the display with a soft, lint-free cloth. Do not use alcohol or detergent on the product.

[FR] *Essuyer délicatement l'écran avec un chiffon doux non pelucheux. Ne pas utiliser d'alcool ou un détergent sur le produit.*



### Touchscreen Guideline Guide de l'écran tactile

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

[FR] *Utiliser votre doigt ou le stylet sur l'écran. L'utilisation d'un objet pointu ou métallique peut provoquer des rayures.*

Use a soft cloth to remove dirt on 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. To clean off hard to remove dirt, blow some steam on the particular area and gently wipe away using a soft cloth.

[FR] *Utiliser un chiffon doux pour enlever la poussière sur l'écran. La surface de l'écran tactile a un revêtement protecteur spécial empêchant la saleté de se coller à lui. Ne pas utiliser un chiffon doux peut endommager le revêtement spécial sur la surface de l'écran tactile. Pour nettoyer les saletés plus difficiles à enlever, souffler de la buée sur la zone particulière et essuyer doucement avec un chiffon doux.*

Do not use excessive force on display. Avoid placing objects on top of the display as this may cause the glass to break.

[FR] *Ne pas utiliser une force excessive sur l'écran. Éviter de placer des objets au dessus de l'écran cela pourrait provoquer une cassure du verre.*

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.

[FR] *Lorsqu'il y a un écart sensible dans le fonctionnement de l'écran tactile (votre contact ne correspond pas à la bonne position sur l'écran), recalibrer l'écran tactile.*

## 1.4 Declaration of Conformity (DoC)

### FCC Statement

This device complies with part 15 FCC rules.



Operation is subject to the following two conditions:

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

This equipment has been tested and found to comply with the limits for a Class "B" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

### CE Notice (European Union)

This equipment is in conformity with the requirement of the following EU legislation and harmonized standards. The product also complies with the Council's directions.



Electromagnetic Compatibility Directive (2014/30/EU)

- EN55024: 2010/ A1: 2015
  - IEC61000-4-2: 2009
  - IEC61000-4-3: 2006+A1: 2007+A2: 2010
  - IEC61000-4-4: 2012
  - IEC61000-4-5: 2014
  - IEC61000-4-6: 2014
  - IEC61000-4-8: 2010
  - IEC61000-4-11: 2004
- EN55032: 2015/AC:2016
- EN61000-3-2:2014
- EN61000-3-3:2013

Low Voltage Directive (2014/35/EU)

- EN 62368-1:2014

## 1.5 Copyright Notice

No part of this document may be reproduced, copied, translated, or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the prior written permission of the original manufacturer.

## 1.6 Trademark Acknowledgement

Brand and product names are trademarks or registered trademarks of their respective owners.

## 1.7 Disclaimer

Winmate Inc. reserve the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. We assume no responsibility or liability for the use of the described product(s) conveys no license or title under any patent, copyright, or masks work rights to these products, and make no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this manual are for illustration purposes only. We make no representation or guarantee that such application will be suitable for the specified use without further testing or modification.

## Chapter 2: Getting Started

### 2.1 Introduction

Congratulations on purchasing Winmate® 10.1-inch Rugged Windows Tablet M101AD.

M101AD is a rugged tablet with robust features designed to withstand industrial use while providing high-tech solutions that increase productivity, improve safety, and reduce operational costs. The processing power comes from Intel® Core i5-1235U, up to 4.4 GHz processor. The tablet features a brilliant, in-plane switching with direct optical bonding, projective capacitive touch screen, which is outdoor viewable and offers 1920 x 1200 pixel resolution. Weighing at just 2.7 pounds (approximately 1200 grams), the M101AD delivers lightweight mobility in a rugged tablet.

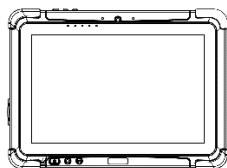
#### Highlights

- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Hot swappable battery design
- Intel® Core™ i5-1235U Alder Lake processor
- IP65 waterproof and dustproof, MIL-STD-810H shock, vibration and drop resistance
- Sunlight readable with anti-glare solution

### 2.2 Unpacking

Check and identify the supplied accessories:

- **Tablet Computer**



- **Standard Battery**



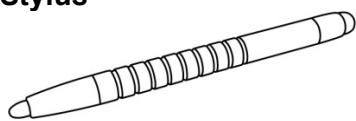
- **Power Adapter**



- **Power Cord and Plugs**



- **Stylus**



- **Quick Start Guide**



Your package may include other optional accessories based on your order:

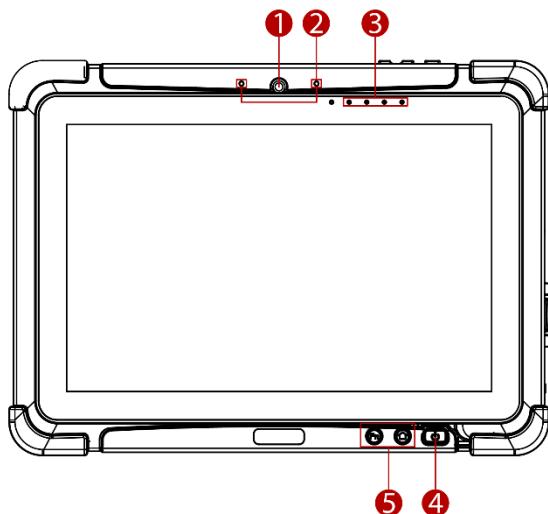
- **Desk Dock**
- **Vehicle Dock (without VGA output)**
- **Vehicle Cradle**
- **Vehicle Charger**
- **Battery Charger**
- **Hand Strap**

- **Shoulder Strap**
- **Carry Bag**
- **USB-C to Ethernet Adapter**
- **USB-C to RS232 Adapter**
- **USB-C to USB-A Hub**

## 2.3 Description of Parts

Dimensions: 271.80 x 198.21 x 21 mm

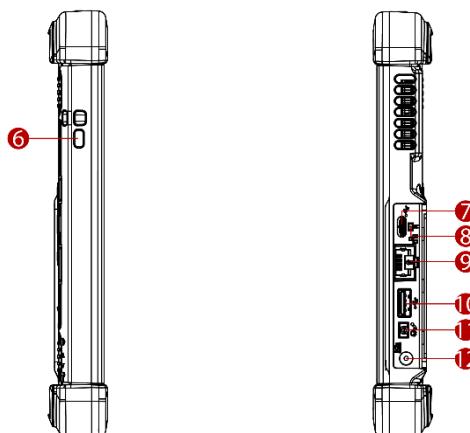
**Front:**



**Left:**

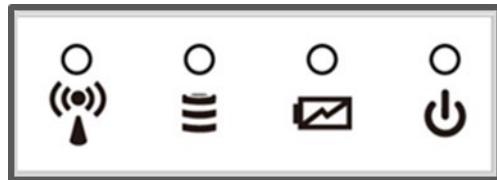


**Right:**

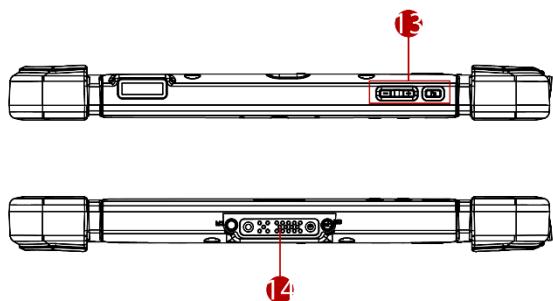
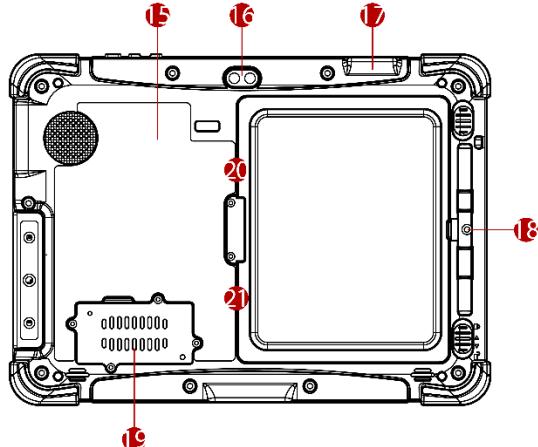


No	Item	Description
1	Front Camera	2 Megapixel Webcam.
2	Digital Mic with noise cancellation	Use during video recordings and communications.
3	Light Sensor and LED Indicators	Show the current status of the Tablet Computer. RF communications, storage, battery status, power status.
4	Power Button	Power on/off the tablet.
5	Fn1 Button	Programmable function key configured by HotTab Utility.

**Front LED Indicator Details:**



No	Item	Description
6	Kensington Lock	Use to attached tablet computer around a table leg or another secure location.
7	USB 3.0 Type-C	A high-speed USB port connects to USB devices, such as a USB flash drive, mouse, keyboard, printer, etc. (Supporting Alternate Mode (ALT) or USB Power Delivery (USB-PD)).
8	Reset Button	Hardware reset button.
9	GigaLAN	Connects the LAN cable
10	USB 3.0 Type-A	USB 3.0 port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc.
11	Power Jack	DC power input jack.
12	Mic In/Line Out	Headset or headphone can be connected (Mic is only supported with a 3.5mm 4-pin headset).

**Top and Bottom:****Rear:**

No	Item	Description
13	Function Buttons	Programmable function key configured by HotTab Utility.
14	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna.

No	Item	Description
15	HF RFID Scanner	To identify RFID signals.
16	Rear Camera	8MP Autofocus Camera. Capture photos and videos.
17	Barcode Scanner	Barcode scanner for reading of 1D/2D barcode.
18	Touch Pen Slot	Pen holder slot to store touch pen.
19	LTE Module Slot	To insert LTE module
20	Micro SD Card Slot	To insert Micro SD card
21	SIM Card Slot	To insert Micro SIM card

**2.4 Indicators**

Icon	Indicator	Description
	Power Indicator	<b>Blue</b> – Tablet is ON <b>No light</b> – Tablet is OFF
	Battery Status	<b>Orange</b> –AC adapter is plugged in and charging <b>Green</b> –AC adapter is plugged in, the battery is fully charged <b>Solid Red</b> - Low battery (<10%) <b>Blinking Red</b> – Battery is hot-swapped. <b>No light</b> – Battery is in use with more than 10% capacity
	Disk Activity Indicator	<b>Green</b> - Disk Activity <b>No light</b> - Disk Idling
	RF Communication	<b>Green</b> - One of Wi-Fi/BT/WWAN/GPS is ON <b>No light</b> - Wi-Fi/BT/WWAN/GPS are all OFF

## 2.5 Hotkey for Specific Functions

Physical buttons with their dedicated functions can be used to emulate commonly used keyboard keystrokes. Under a different scenario, a single physical button or a combination of physical buttons provide extra keyboard keystrokes, which are specified below:

**In POST (before Windows boots up):**

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

**In 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 (+) and Volume Down (-)	Ctrl + Alt + Del

## 2.6 First-Time Operation

### 2.6.1 Installing SIM card (For WWAN Equipped Devices)

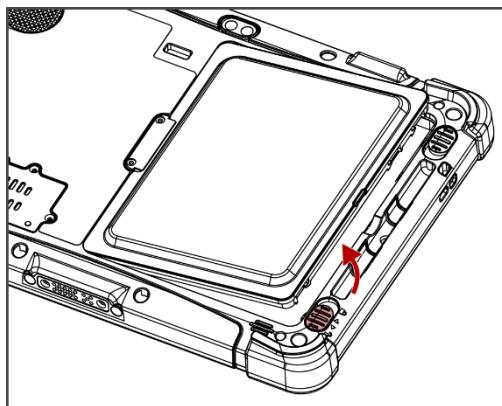
Notice that the WWAN feature is optional and may not be supported by your device. Check your order specifications for more details.



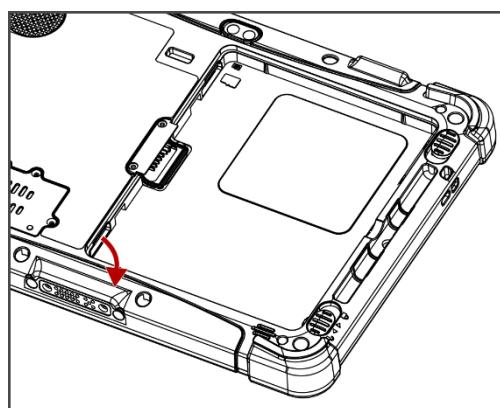
**Caution** Disconnect any cords connected to the tablet computer before installing or removing the battery procedure.

**Attention** Débranchez tous les cordons connectés à la tablette avant l'installation ou la procédure de retrait de la batterie.

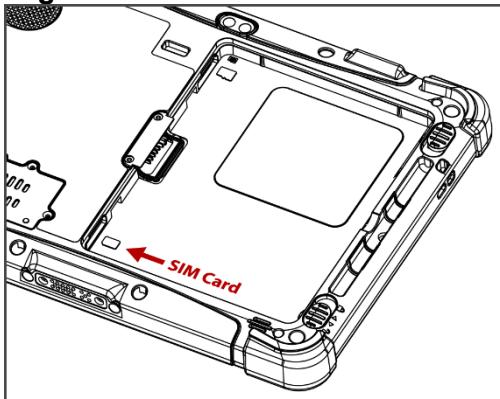
- ① Remove the battery, as described in the previous section.



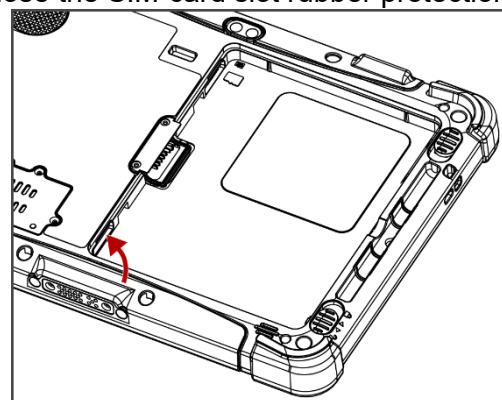
- ② Open the SIM-card slot rubber protection cover.



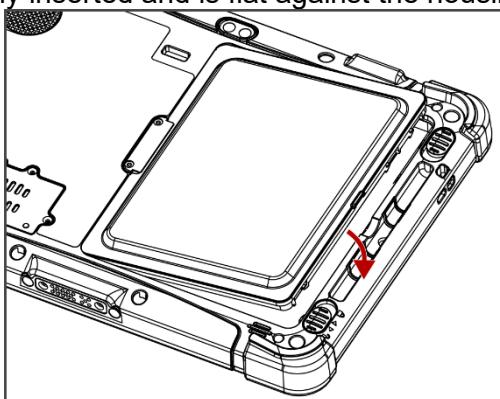
- 3** Insert the SIM Card all the way. **Chip/ contact facing down.**



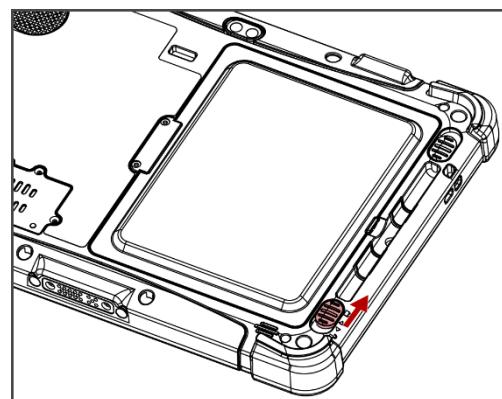
- 4** Close the SIM-card slot rubber protection cover.



- 5** Re-insert the battery. Make sure to battery is fully inserted and is flat against the housing.



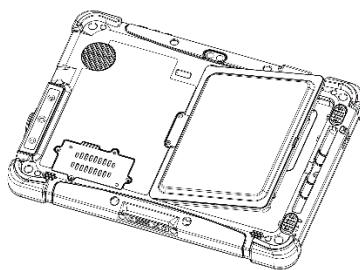
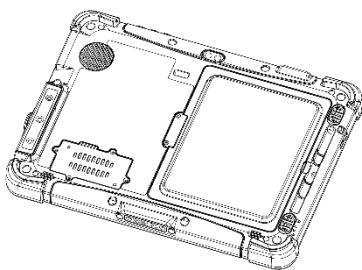
- 6** Push the Battery Lock to the "Locked" position.



## 2.6.2 Installing Battery

*To install the standard battery pack:*

1. Disconnect any cords connected to the tablet computer.
2. Turn the tablet 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. The battery will be flat against the housing once fully inserted.



*To remove the battery pack:*

1. Shut down the tablet (or put it into sleep mode). 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 the side of the battery compartment.

### 2.6.3 Charging Your Tablet

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

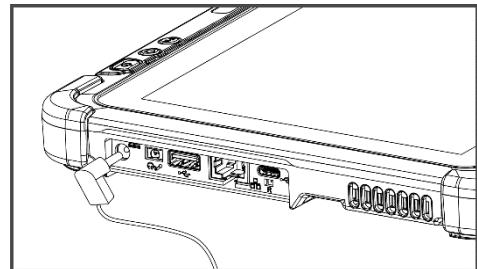


**Caution** Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

**Attention** Utilisez uniquement l'adaptateur secteur fourni avec votre tablette. L'utilisation d'autres adaptateurs secteur peut endommager la tablette et la batterie.

*To connect a tablet to AC power:*

1. Open I/O protective cover by pulling out 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. Plug the AC power cord into the electrical outlet.



*The battery LED indicator shows different battery states:*

**Orange** - AC adapter is plugged in and the battery is charging.

**Green** - AC adapter is plugged in and the battery is fully charged.

**Solid Red** - Low battery level (<10%).

**Blinking Red** – Battery is being hot swapped.

**No light** – Battery is in use and charged (>10%).

### 2.6.4 Starting the Tablet

#### **Important:**



When powering on the device for the first time, please make sure there is 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 the recovery process.

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

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. Tap on the **Settings** charm.
3. Tap on **Power**.
4. Tap on **Shut Down**.
5. 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**.

# Chapter 3: Setting Up Windows for the First Time

## 3.1 Introduction

The M101AD Tablet Computer operates on Windows 10 IoT Enterprise operating system.



**Caution** Make sure the battery is fully charged before starting the Tablet Computer for the first time with internal battery power.

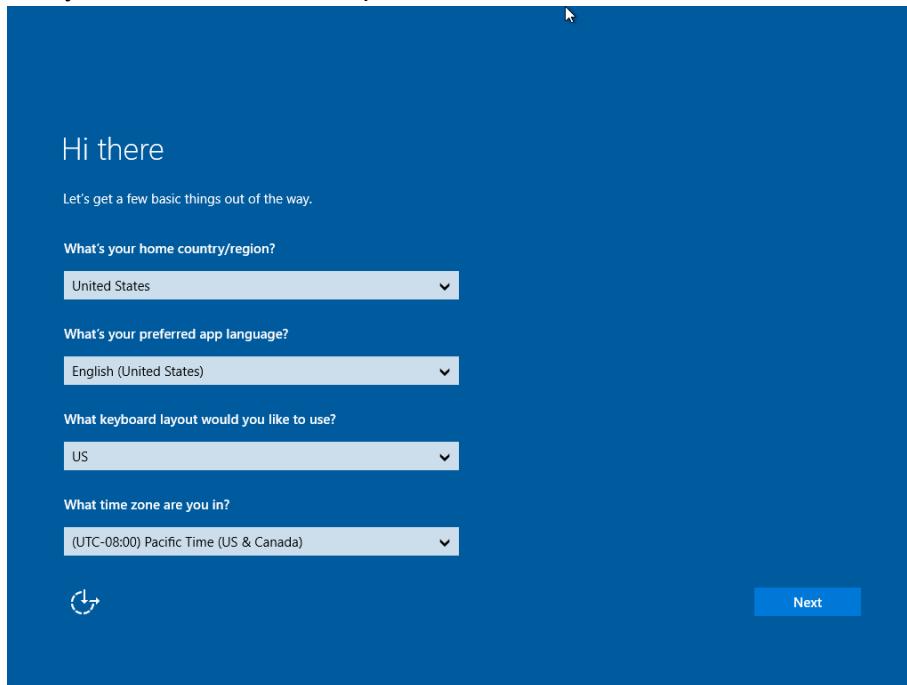
**Attention** Assurez-vous que la batterie est complètement chargée avant de démarrer la tablette PC pour la première fois avec l'alimentation par batterie interne.

- **Public network:** Select this location if you do not recognize all the computers on the network. (For example, you are in a coffee shop or airport or have mobile broadband) with a public network and is *not* trusted. Select the location where you will most often use the computer.

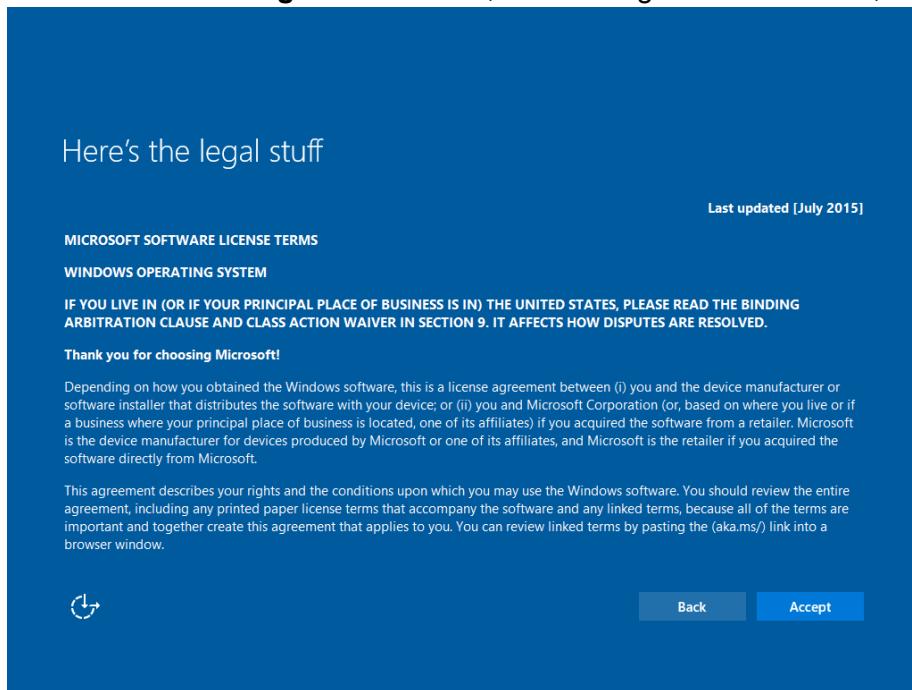
## 3.2 Setting up Windows 10 IoT Enterprise

Follow the steps below to complete the Windows 10 IoT Enterprise setup process.

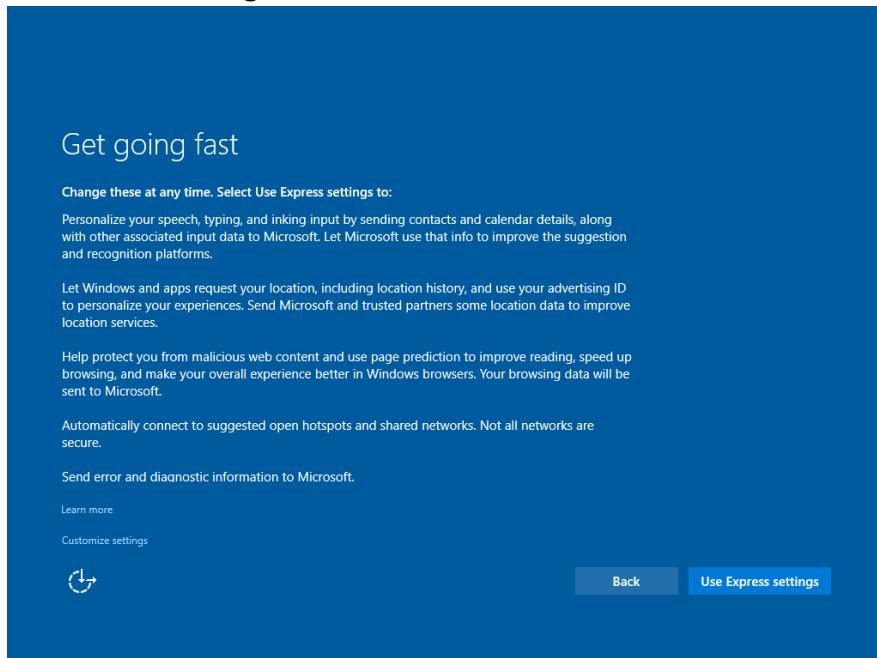
1. Press the power button to turn on the computer.
2. First, select your country/region, your preferred app language, your preferred keyboard layout, and your time zone, then tap **Next**.



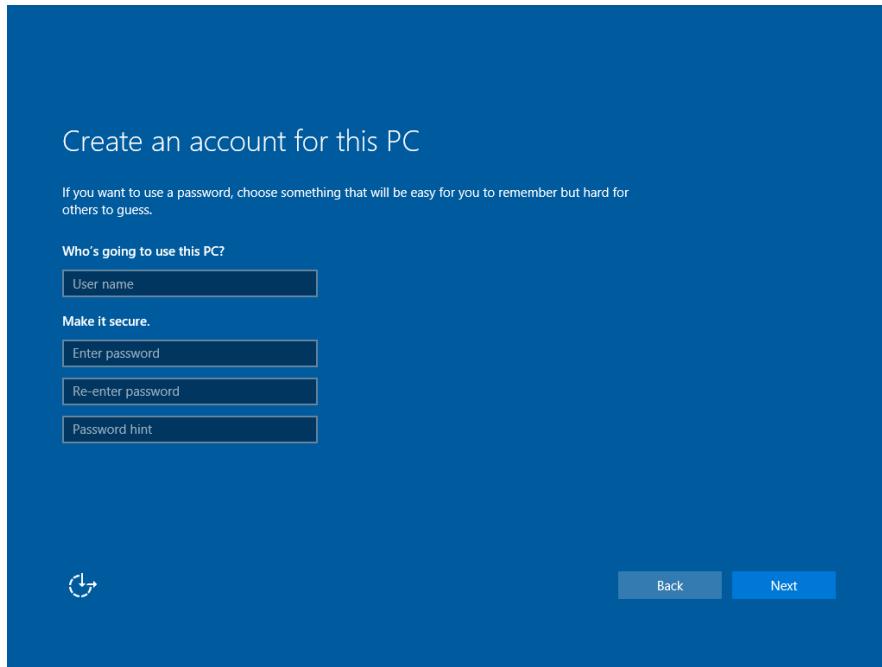
3. On the **Here's the legal stuff** screen, read through the disclosures, then tap **Accept**.



4. Windows will then try to connect to a network. Tap **Skip this step** to continue without a wireless connection, as you can then set up the network later.
5. On the **Get going fast** screen, click **Use Express settings** for the fastest setup. If you want more information, tap **Learn more**, or if you would like to select your personalized options, click **Customize settings**.



6. To create a local account, type your **User name**, **password**, and a **Password hint** in the fields provided, then tap **Next**.



7. The initial setup screens are complete, and the desktop is displayed.
8. Read any introductory screens describing features of your computer, and tap **Next** upon completing each. You are now done with the initial setup process.

# Chapter 4: Operating the Device



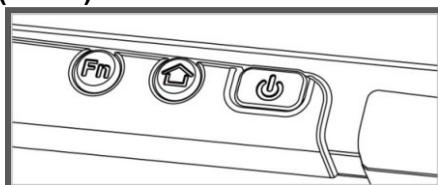
**Note:** Please download the Software Development Kit (SDK) from Winmate Download Center (the QR code in the cover page).

Please notice that HF RFID reader, Barcode reader are optional module, please make sure user have ordered the module before using the SDK.

## 4.1 HotTab Introduction

HotTab is the utility to control all main functions of your tablet computer. When Windows starts up, HotTab starts and runs on the background. To display the HotTab interface press the  (Menu) button located on the front panel or launch the application.

 (Menu) Button on the Front Panel:



HotTab 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.

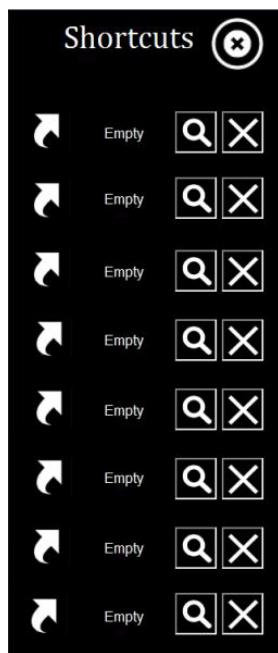


Icon	Description
	Allows users to configure short cut to quickly access programs with a few tabs.
	Allows users to take a picture or record a video. Users can also adjust settings related to the camera in this menu option.
	Enables/disables tablet computer's hardware functions. The configurable functions are WLAN, WWAN, GPS, BT, Camera, LED indicators, Barcode Reader, RFID Reader, and GPS Antenna routing options.
	Provides users information such as PC Information, battery status, and device settings such as power management setting, and function key mappings.

## 4.2 Shortcuts

HotTab Shortcuts Menu provides a user-friendly interface to configure on-screen software shortcuts and allow users to access programs quickly with a few tabs. The Shortcuts menu offers 8 empty slots to store user's desired quick access. Shortcuts can be mapped to any of the executable files (.exe) installed on the tablet.

### Short Cut Menu:



### To store a new shortcut:

1. Open the HotTab utility by press the (Menu) Button located on the front panel OR launching the HotTab Utility application.
2. Tap on the **Shortcuts** button.
3. Tap on button of any empty slot.
4. An on-screen file browser will appear.
5. Browse to find the desired application to have a shortcut.
6. Click "Open" to save the shortcut.

### To remove a saved shortcut:

1. Open the HotTab utility by press the (Menu) Button located on the front panel OR launching the HotTab Utility application.
2. Tap on the **Shortcuts** button.
3. Tap on the button of any saved slot to remove
4. The shortcut will be removed, and once again show "Empty" to indicate slot is empty.
5. Tap on the button will hide the HotTab Utility Menu.

### Using the HotTab shortcuts:

1. Open the HotTab utility by press the (Menu) Button located on the front panel OR launching the HotTab.
2. Tap on the **Shortcuts** button.
3. Tap on the saved shortcut items to access saved programs.

## 4.3 Using Camera

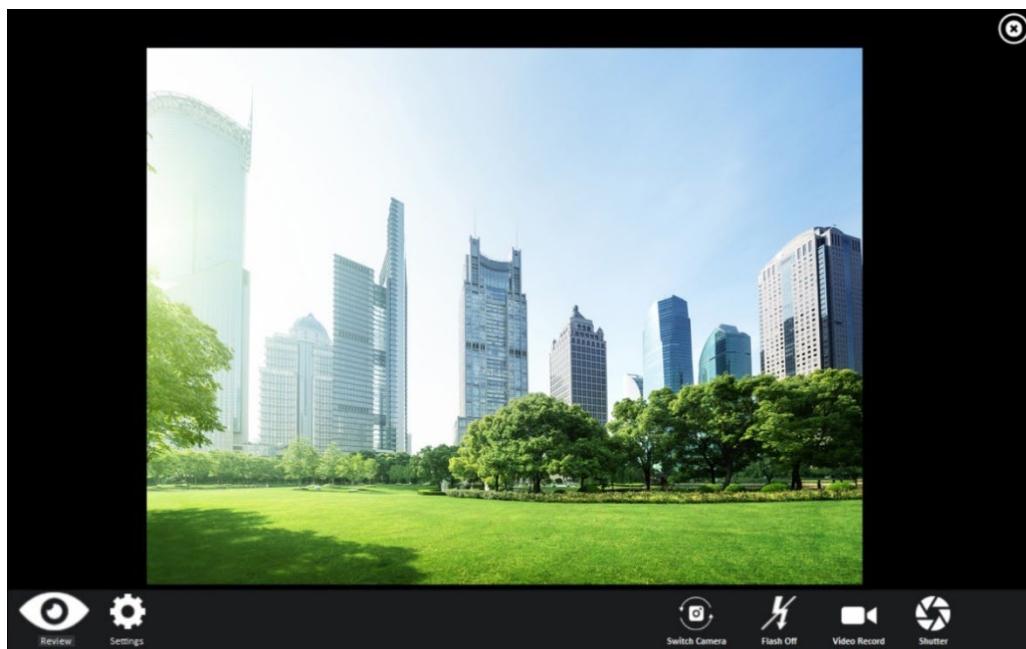
This HotTab menu option allows users take a picture or record a video. Before use, make sure the camera is powered on under the **Devices ON/OFF** menu with the following scenarios.

### To open camera interface:

1. Press the (Menu) button on the front panel to open HotTab or launch the HotTab icon.
2. Tap on **Device ON/OFF** button to check the built-in device's status.
3. Check the status color of the **Camera** icon:

Item	Status Color	Description
Camera	Orange	The camera is enabled.
	White	The camera is disabled.

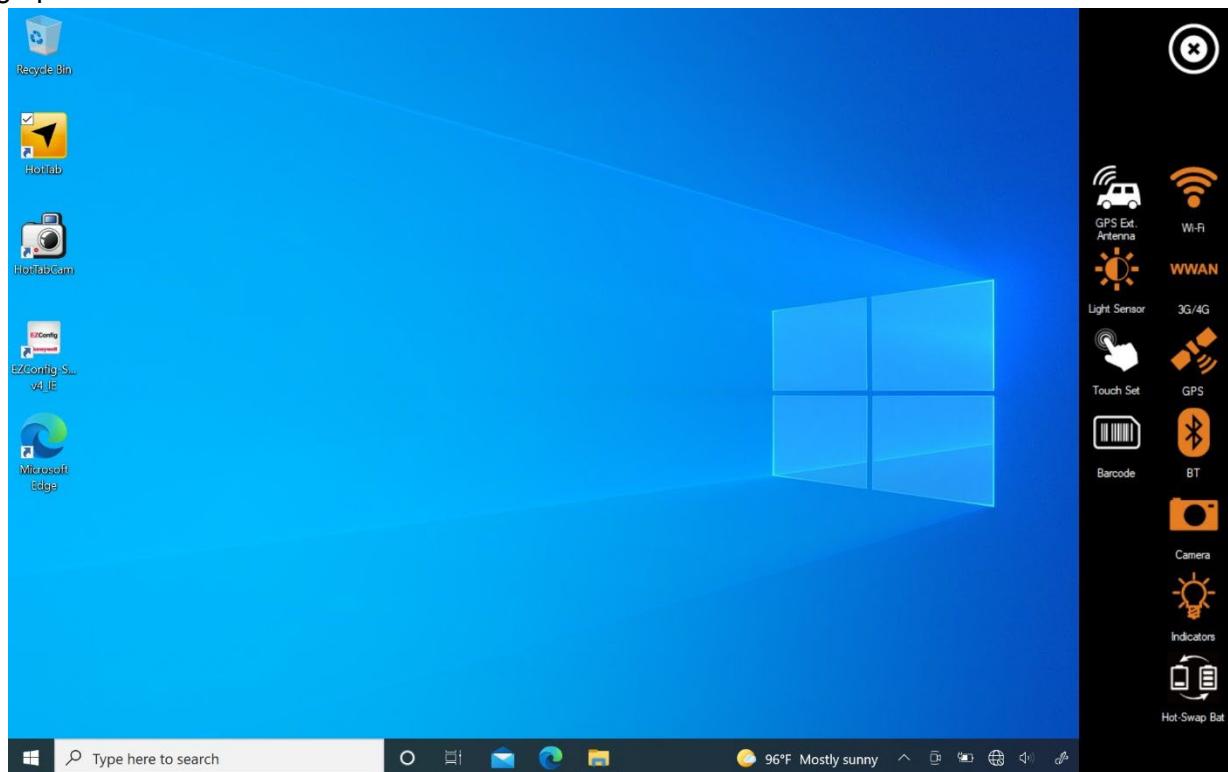
4. If the camera is disabled (white), tap on the **Camera** icon to enable it (orange).
5. Go back to the HotTab main menu by pressing the (Menu) Button OR click on the back arrow on top.
6. Tap on the **Camera** icon to open the camera menu.



No	Item	Description
1	<b>Review</b>	Review
2	<b>Settings</b>	Opens Camera settings page. Available Settings: <ul style="list-style-type: none"><li>• <b>Picture Save:</b> modify/inspect saved location for pictures.</li><li>• <b>Video Save Folder:</b> modify/inspect saved location for video recordings.</li><li>• <b>Picture Quality:</b> Picture compression quality.</li></ul>
3	<b>Camera Switch</b>	Switch between front camera or rear camera.
4	<b>Flash Control</b>	Enables/ Disables LED Flash when taking picture.
5	<b>Video Record</b>	Tap to Start, and press again to stop recording.
6	<b>Shutter Camera</b>	Camera Shutter Button. Tap to take picture.
7	<b>Exit</b>	Exits the Camera and hide HotTab Utility.

## 4.4 Built-in Devices On/Off

This section describes how to get quick access to set built-in devices, including turning on/off RF modules, setting up barcode reader and RFID reader.



### 4.4.1 Using the Wireless LAN (WLAN)

To use the wireless LAN feature to connect to the network, perform the following procedure:

1. Open the HotTab by press the  (Menu) button located on the front panel or launch the HotTab application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **Wi-Fi** icon:

Item	Status Color	Description
 Wi-Fi	Orange	Wi-Fi is enabled.
	White	Wi-Fi is disabled.

4. If the WLAN feature is disabled (white), tap on the Wi-Fi icon to enable it (orange).
5. Click the wireless network connection status icon in the Windows notification area. A list of available wireless networks is displayed.
6. Double-click a network to connect to it. Provide required authentication information if needed.
7. To check the connection status, observe the wireless network connection status icon in the Windows notification area. The more bars the icon shows, the better the wireless LAN connection strength is.
8. Now wireless LAN connection is set, try the connection to the network with an internet browser such as Internet Explorer.

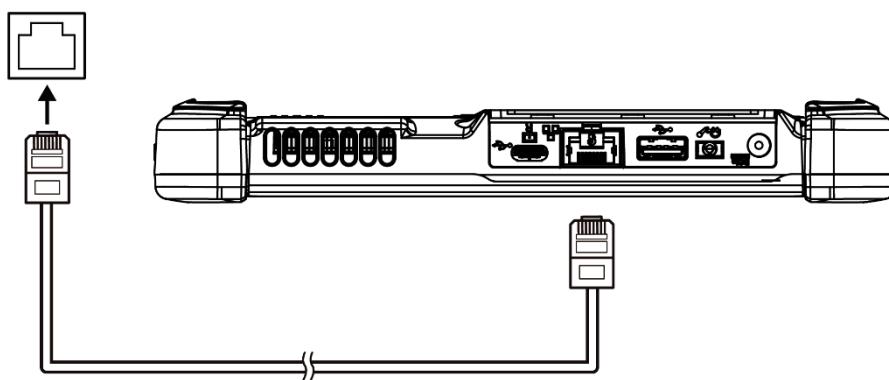
#### 4.4.2 Using the LAN



##### Important:

Do not connect the telephone cable to the LAN port.

1. Turn off the tablet. Do not use sleep or hibernation mode.
2. Open the IO cover.
3. Connect the LAN port and network system (server, HUB, etc.) using a LAN cable
4. Turn on the tablet.



#### 4.4.3 Using the Wireless WAN (WWAN)

The Tablet Computer supports data connection with WWAN modules and fits a Micro-SIM card.

**(Note:** WWAN feature is optional).



**Caution** Power off the tablet before installing the WWAN module and Micro SIM card, or the tablet computer might be damaged by the incorrect installation behaviors.

**Attention** Mettez la tablette hors tension avant d'installer le module WWAN et la carte Micro SIM, sinon la tablette peut être endommagée par des comportements d'installation incorrects.

*To connect to the network using wireless WAN:*

1. Open the HotTab by press the (Menu) Button located on the front panel OR launching the HotTab application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **WWAN** icon:

Item	Status Color	Description
<b>WWAN</b>	Orange	WWAN is enabled.
3G/4G	White	WWAN is disabled.

4. If the WWAN feature is disabled (white), tap on the WWAN icon to enable it (orange).
5. You can check the wireless WAN connection status through the wireless network connection status icon in the Windows notification area. The more bars encompassed, the better the signal is.

#### 4.4.4 Using the GPS

To enable the GPS:

1. Open the HotTab by press the  (Menu) Button located on the front panel or launch the HotTab application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **GPS** icon:

Item	Status Color	Description
 <b>GPS</b>	Orange	GPS is enabled.
	White	GPS is disabled.

4. If the GPS feature is disabled (white), tap on the GPS icon to enable it (orange).
5. Now the GPS feature is ready to be used with an application utilizing the GPS.

#### 4.4.5 Using the BT

To enable the BT:

1. Open the HotTab by press the  (Menu) Button located on the front panel OR launching HotTab application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **BT** icon:

Item	Status Color	Description
 <b>BT</b>	Orange	BT is enabled.
	White	BT is disabled.

4. If the BT feature is disabled (white), tap on the BT icon to enable it (orange).
5. Click the BT icon in the Windows notification area. A contextual menu for BT is displayed.
6. To add a device, tap on *Add a BT Device*. Windows will search any BT device automatically
7. Choose the BT device to connect and follow the on-screen prompt to continue the pairing procedure and use the BT device.

#### 4.4.6 Turning On/Off LED Indicators

The LED Indicators for Power Status, Battery Status, and RF Communication can be turned on/off from HotTab menu.

To enable/disable the LED indicators:

1. Open the HotTab by pressing the  (Menu) Button located on the front OR launching the HotTab application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **Indicators** icon:

Item	Status Color	Description
 <b>Indicators</b>	Orange	LED indicator is enabled.
	White	LED indicator is disabled.

4. If the indicator is disabled (white), tap on the **Indicators** icon to enable it (orange).

#### 4.4.7 Replacing Battery

The M101AD Tablet supports hot-swap, meaning the tablet doesn't need to be powered off to replace the main battery. To support hot-swap, there is a built-in backup battery inside the tablet that is charged together with the main battery.

*Perform the following to hot-swap the batteries:*

1. Power on the tablet, open the HotTab icon, click **Setting** to check the power level of the Backup battery.

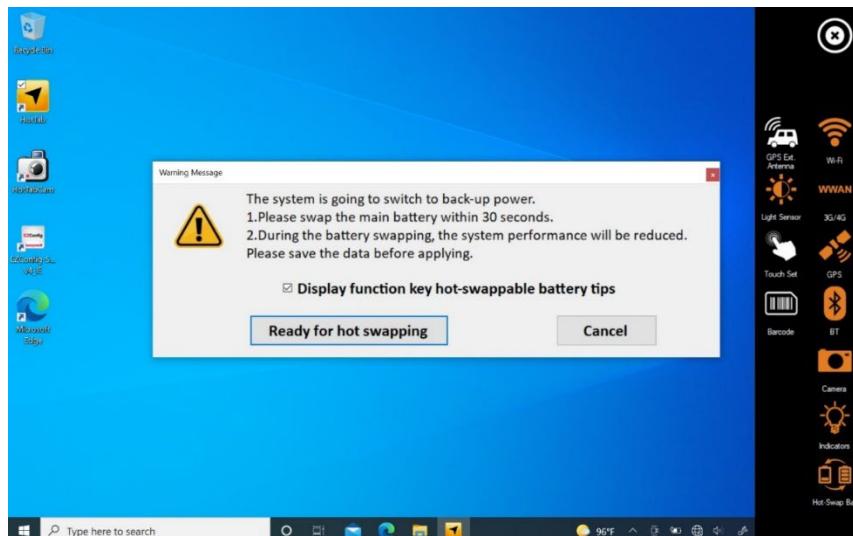


2. If the Backup battery level is “Low”, please charge the tablet with AC Power until the Backup battery level is “Medium” or “High”, and do not remove the main battery.
3. If the Backup battery level is at “Medium” or “High”, click on **Device ON/OFF**.

4. Check the status color of the **Hot-Swap Bat** icon:

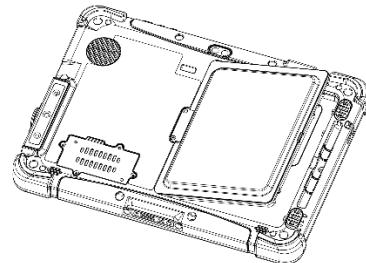
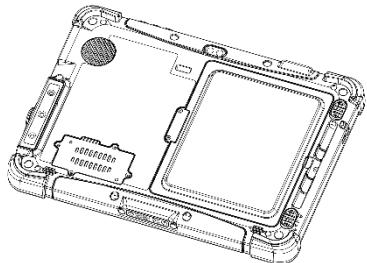
Item	Status Color	Description
 <b>Hot-Swap Bat</b>	Orange	Hot-Swap Bat function is enabled.
	White	Hot-Swap Bat function is disabled.

5. If the indicator is disabled (white), tap on the **Hot-Swap Bat** icon to enable it (orange).
6. A Warning Message dialog box will pop out. Click **Ready for hot swapping** before replacing the battery.



**Important:**

-  1. The system performance and display brightness will be reduced to the minimum to support hot-swap battery. Please save the data before activating this function.
- 2. Hot-swapping the battery without enabling the Hot-Swap Bat function may lead to automatically shut down.
- 7. Insert a new fully charged battery into the battery compartment.



8. Open HotTab and click **Setting** to check Main battery level. If the battery level is displayed incorrect, check if the new removable battery is inserted properly.
9. If the battery level is correct, continue using the tablet.



**Caution** Charge the built-in back-up battery every two months to keep battery health and prevent possible issues from battery over-discharge.

**Attention** Chargez la batterie de secours intégrée tous les deux mois pour préserver la santé de la batterie et éviter d'éventuels problèmes de décharge excessive de la batterie.

#### 4.4.8 Using the Barcode Reader

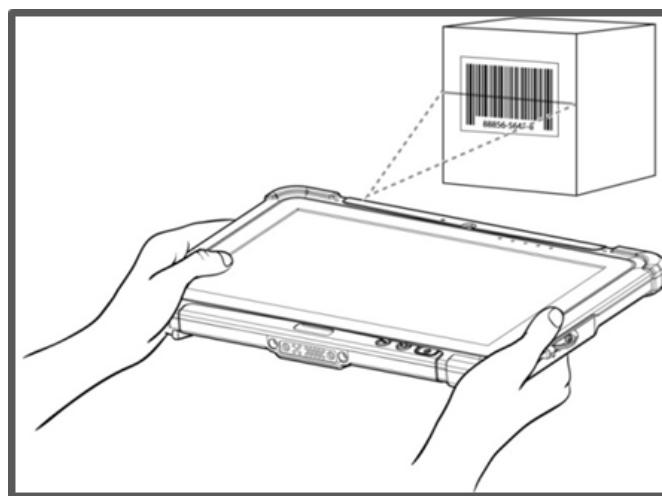
The 1D/2D Barcode Reader is optional for M101AD Tablet PC and is not re-workable by the end user. To use this feature, please make sure the tablet PC is built-in barcode reader before use, or contact our sales contact window for more details.

*To enable the Barcode Reader:*

1. Open HotTab by pressing  (Menu) Button located on the front panel Or launch HotTab application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **Barcode** icon.

Item	Status Color	Description
 <b>Barcode</b>	Orange	Barcode Reader is enabled. Reading will need to be triggered manually thru Fn button.
	White	Barcode Reader is disabled.

4. Open the application where barcode reader will be displaying the scanned barcode.
5. Trigger the barcode reader by pressing Fn2 function key.

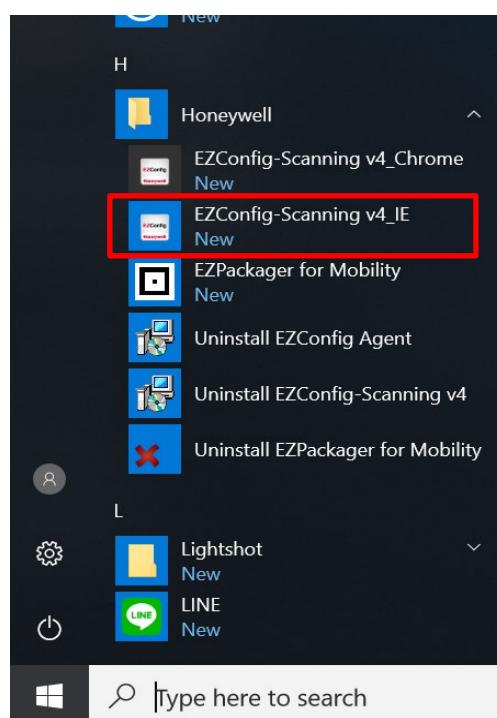


Tap **Disconnect** button to stop the connection with Barcode Reader.

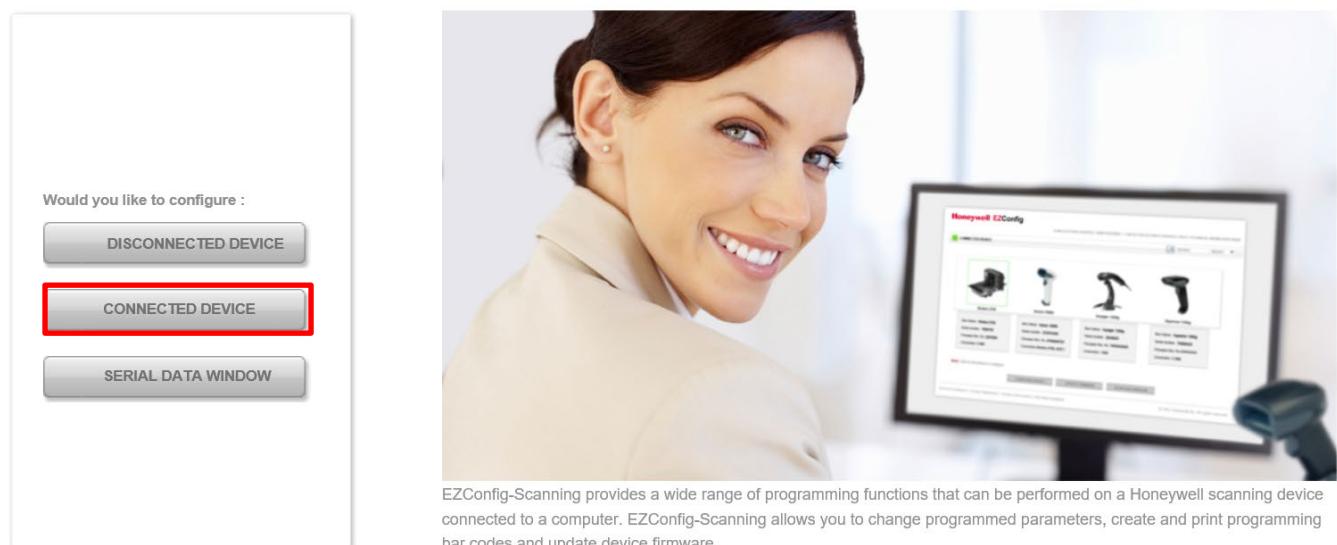
\*To recover the connection, please tap on the button again to re-connect with Barcode Reader.

#### 4.4.8.1 Device Configuring and Setting

1. Click on Windows and search for **EZConfig-Scanning** from the Start menu.



2. Click on **EZConfig-Scanning v4\_IE** and allow the blocked content if browser is blocking the content.
3. Click on “Connected Device” icon and wait for system to discover the device (Honeywell N6703).



Internet Explorer restricted this webpage from running scripts or ActiveX controls. [Allow blocked content](#)

- Once Honeywell N6703 is discovered please click “Configure Device” button as shown.

CONNECTED DEVICE

Home > Connected Device

Refresh

Honeywell N660X Series Area Image Engine

Model: **N660X**  
Serial No: **18036B086F**  
Firmware No: **B1000858HAC**  
Connection: **USB HID KBD**  
[Show License/Plug-in Info](#)

Firmware is up to date

Note: Click on the device to connect / disconnect

CONFIGURE DEVICE **UPDATE FIRMWARE SCAN DATA WINDOW**

#### 4.4.8.2 Scanning mode Settings

- Click on Device Settings under the Input/Output settings section.

Honeywell N660X Series Area Image Engine

1.SETTINGS 2.SYMBOLICAS 3.DATA FORMATTING 4.IMAGING 5.SCAN DATA WINDOW 6.COMPARE

**Input/Output Settings** | Interfaces | Licenses / Plug-ins (Apps) |

Beeper Settings | Scanning Options **Device Settings**

2. Select the desire scanning mode from the drop-down menu shown as below.

#### Scanning Mode Modifiers

Scanning Mode Presentation LED Behavior After Decode	Default: 0
<div style="border: 1px solid red; padding: 5px; margin-bottom: 10px;"> <b>Host Notify Mode</b>            Manual Trigger            Presentation Mode            Snap And Ship Mode            Streaming Presentation(TM) Mode         </div>	
Presentation Sensitivity Presentation Mode Pre Aimer Delay	Range: 0-20 Default: 1
Off <input type="checkbox"/> <b>On</b> Default: 1	
TRGMMF Trigger Pre Aimer Delay	Default: 0 Range: 0-9999 Default: 0
TRGOTO	2500 Range: 0-9999 Default: 2500

3. After selecting a desire scanning mode, click on the **Save to Device** on the side bar.



Scanning mode	Description
<b>Manual Trigger</b>	When in manual trigger mode, the scanner scans until a bar code is read or until the trigger is released. Two modes are available, <b>Normal</b> and <b>Enhanced</b> . Normal mode offers good scan speed and the longest working ranges (depth of field). Enhanced mode will give you the highest possible scan speed but slightly less range than Normal mode. Enhanced mode is best used when you require a fast speed and don't require a long working range. Default = Manual Trigger-Normal.
<b>Presentation Mode</b>	Presentation Mode uses ambient light and scan engine illumination to detect bar codes. When in Presentation Mode, the LEDs remain dim until a bar code is presented to the scan engine, then the aimer turns on, and the LEDs turn up to read the code. If the light level in the room is not high enough, Presentation Mode may not work properly.
<b>Streaming Presentation Mode</b>	When in Streaming Presentation mode, the scan engine's aimer goes out after a short time, but the scan illumination remains on all the time to continuously search for bar codes. Two modes are available, <b>Normal</b> and <b>Enhanced</b> . Normal mode

	offers good scan speed and the longest working ranges (depth of field). Enhanced mode will give you the highest possible scan speed but slightly less range than Normal mode. Enhanced mode is best used when you require a fast scan speed and don't require a long working range.
<b>Host Notify Mode</b>	Host Notify Mode bypasses the decoder and notifies the host that there has been a hardware trigger pull. When in Host Notify Mode, it is up to the host to initiate an Image Snap and/or an Image Ship command. It is also up to the host to switch to another trigger mode.
<b>Snap and Ship Mode</b>	Snap and Ship mode, allows you to bypass the decoder and ship an image directly to the host. In this mode, an image is taken and shipped upon each trigger pull, instead of being sent to the decoder. Snap and Ship is useful when you are using your own decoder.

#### 4.4.8.3 Setting the 1D/2D Barcode Scanner Symbologies

The barcode scanner is shipped with the default settings shown below. If the default setting suits the usage requirement, setting symbologies is not necessary.

##### Symbologies Default Settings:

	<b>Symbologies</b>	<b>Default</b>
Linear	UPC-A	Enable
	UPC-E	Enable
	EAN/JAN-8	Enable
	EAN/JAN-13	Enable
	UPC-E1	Disable
	UPC-A/EAN-13 Extended Coupon Code	Disable
	GS1 DataBar Omni-Directinal	Enable
	GS1 DataBar Limited	Enable
	GS1 DataBar Expanded	Enable
	Code 39	Enable
	Code 128	Enable
	ISBT 128	Disable
	GS1-128	Enable
	Interleaved 2 of 5	Enable
	Matrix 2 of 5	Disable
	NEC 2/5	Enable
	IATA 2/5	Disable
	Code 2/5	Disable
	Codabar	Enable
	Code 93	Enable
	Code 11	Disable
	MSI	Disable
	Telepen	Disable
	Trioptic Code	Disable
	Postal Code	Disable
	Planet Code	Disable
	Korea Psot	Disable
	China Post	Disable
2D	Australian Post	Disable
	Data Matrix	Enable
	PDF 417	Enable
	Micro PDF 417	Enable
	Codablock A	Disable
	Codablock F	Disable
	Maxicode	Disable
	QR Code	Enable

	Aztec	Enable
	Composite Code	Disable
	Han Xin	Disable

Changing the default setting of symbologies or the advanced setting

*There are two methods to change the default setting of symbologies or other advanced setting:*



**Method (1).** Click on the Symbologies on the top. Then you can change the symbology to the default setting or make an advanced setting by its category. After setting, click on the **Save to Device** on the sidebar.

**Method (2).** Click on the reset to default button on the side as shown blow:



### ※Warning※

1. The reset to default button will change all settings to default.
2. N6703 could disconnect with the system after clicking the reset to default button.

If the disconnection happened, please scan the barcodes below in the following steps.

Step 1. First, please scan the USB HID barcode:

#### USB HID

Scan the following code to program the scan engine for USB HID.



Step 2. Then please scan the USB Keyboard barcode:

#### USB PC or Macintosh Keyboard

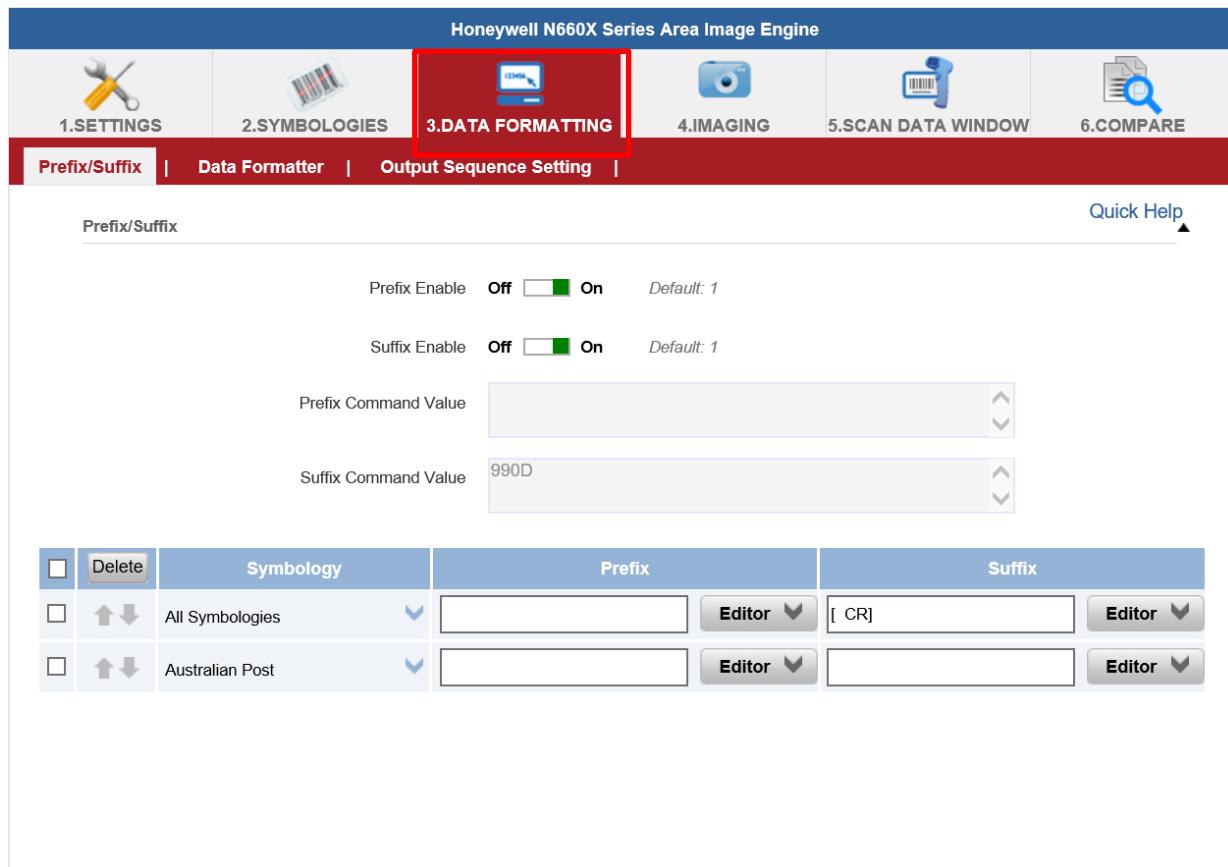
Scan one of the following codes to program the scan engine for USB PC Keyboard or USB Macintosh Keyboard. Scanning these codes also adds a CR suffix.



Step 3. Please rerun EZConfig-Scanning by following **4.4.6.1 Device Configuring and Setting**

#### 4.4.8.4 Adding a Prefix or Suffix

- To add a Prefix or Suffix please click on **Data Formatting** icon.



- Click on the Editor button under the Prefix or Suffix section and create Prefix/Suffix value by typing in the block or select desire characters in the Control chars, Printable chars, and Extended ASCII. as shown below:

Prefix Value

Please select from **Character Set** option below.

Control Characters (Hex: 0x00 to 0x1F) (Dec: 00 to 31)																
Hex	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL 00	SOH 01	STX 02	ETX 03	EOT 04	ENQ 05	ACK 06	BEL 07	BS 08	HT 09	LF 10	VT 11	FF 12	CR 13	SO 14	SI 15
1	DLE 16	DC1 17	DC2 18	DC3 19	DC4 20	NAK 21	SYN 22	ETB 23	CAN 24	EM 25	SUB 26	ESC 27	FS 28	GS 29	RS 30	US 31

3. When you finish creating Prefix/Suffix, please click on **Save to Device** on the sidebar.



4. To check the functionality of Prefix/Suffix, please click on the **Scan Data Window** icon on the top. Then scan a barcode to verify if the Prefix/Suffix appears correctly.

Honeywell N660X Series Area Image Engine

1.SETTINGS    2.SYMBOLICS    3.DATA FORMATTING    4.IMAGING    5.SCAN DATA WINDOW    6.COMPARE

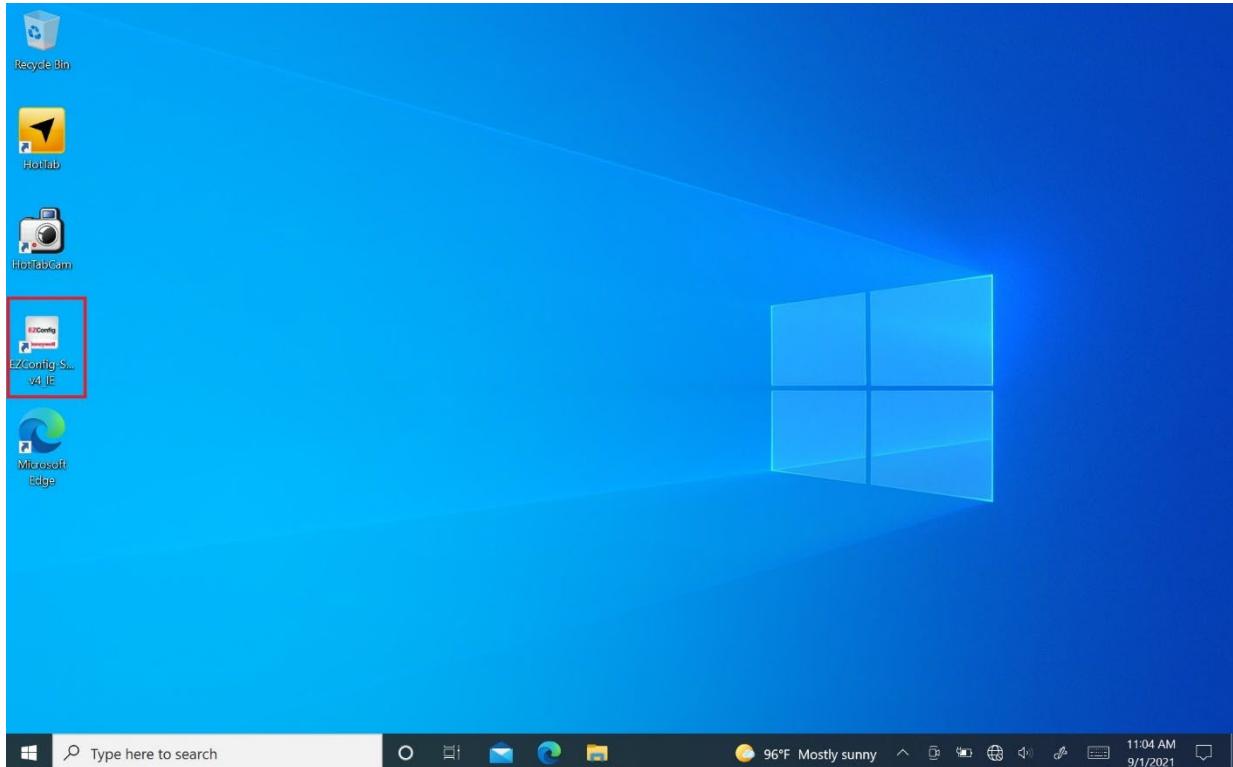
Command Center    Create Programming Bar Code    Quick Help

Command Type :  
 Menu Command    Non Menu Command

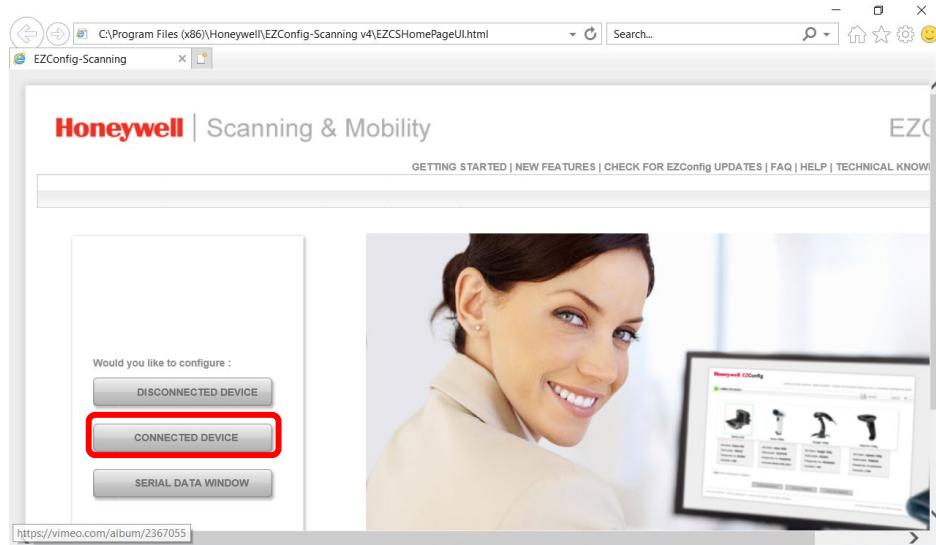
[HT]123456[CR]

#### 4.4.8.5 Adjusting the Barcode Reader LED Brightness

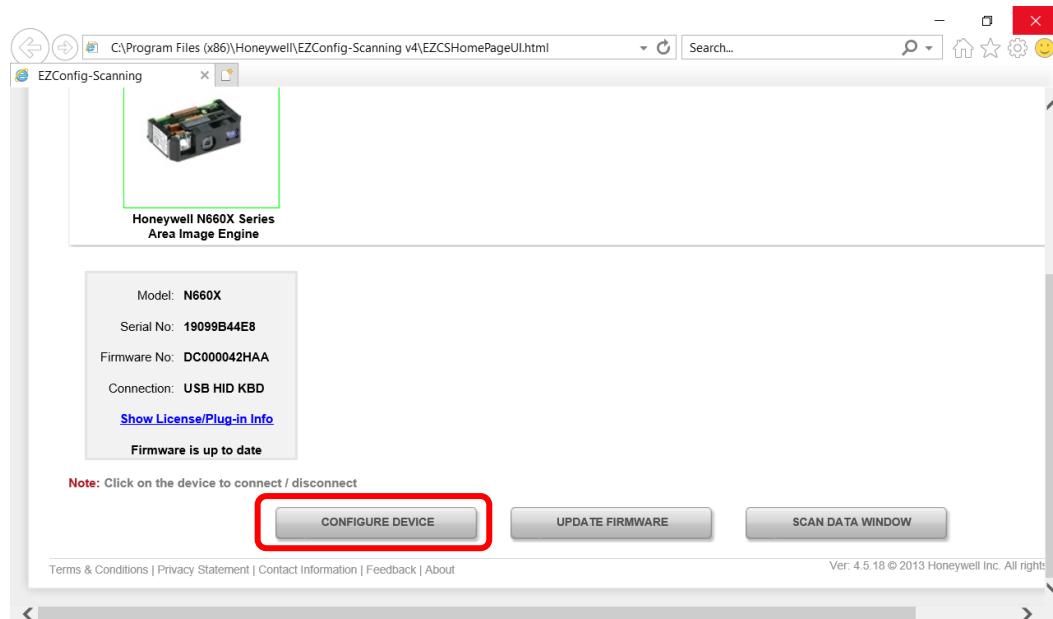
1. Open EZConfig-Scanning V4\_IE Icon.



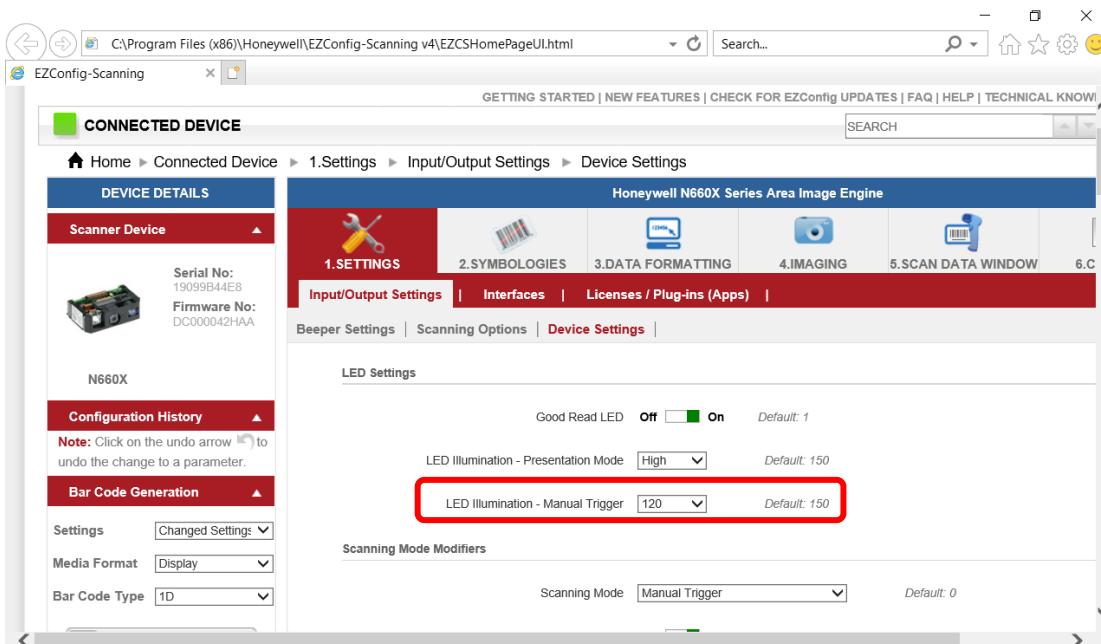
2. Open Connected Device



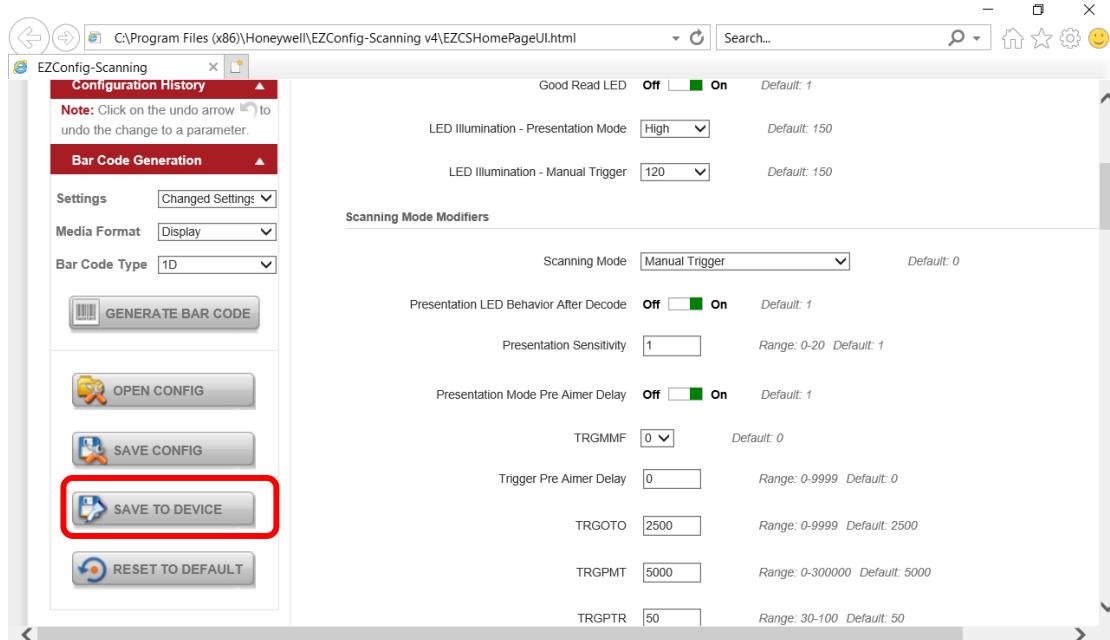
### 3. Open Connected Device



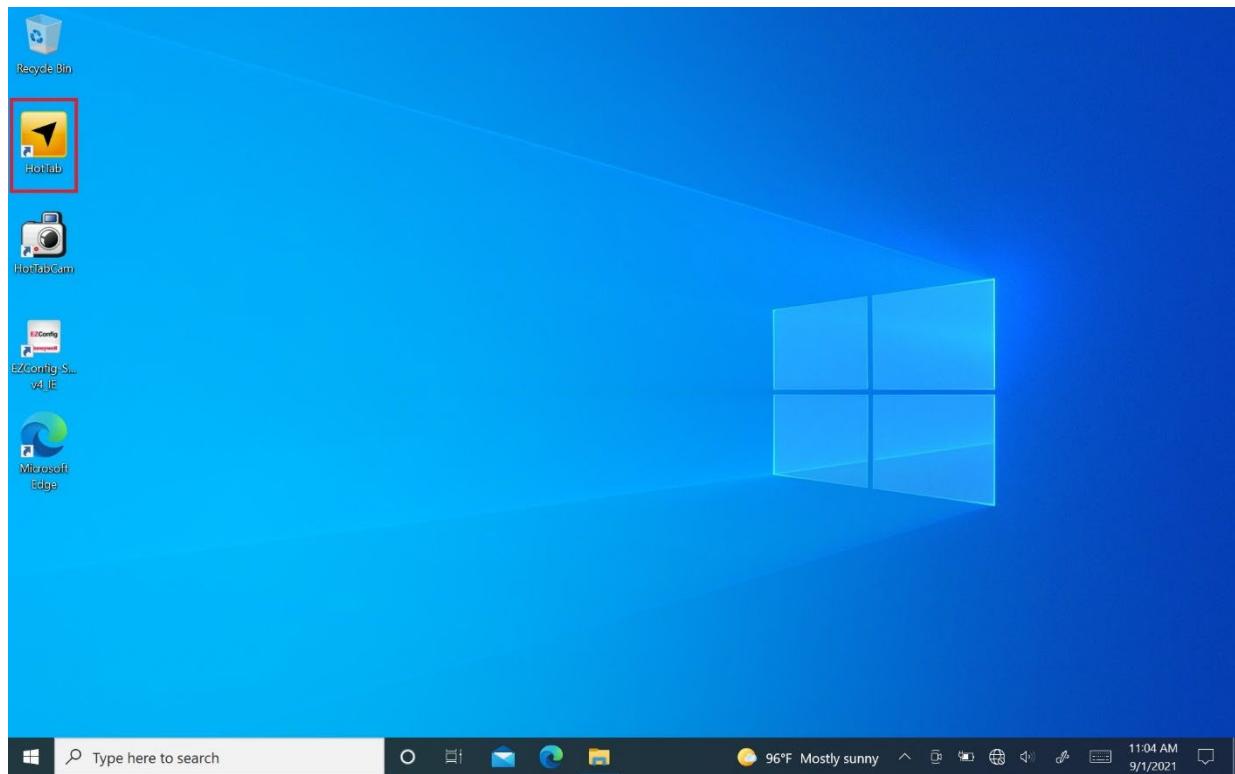
### 4. Open Settings → Device Settings → LED illumination - Manual Trigger Setting change 120



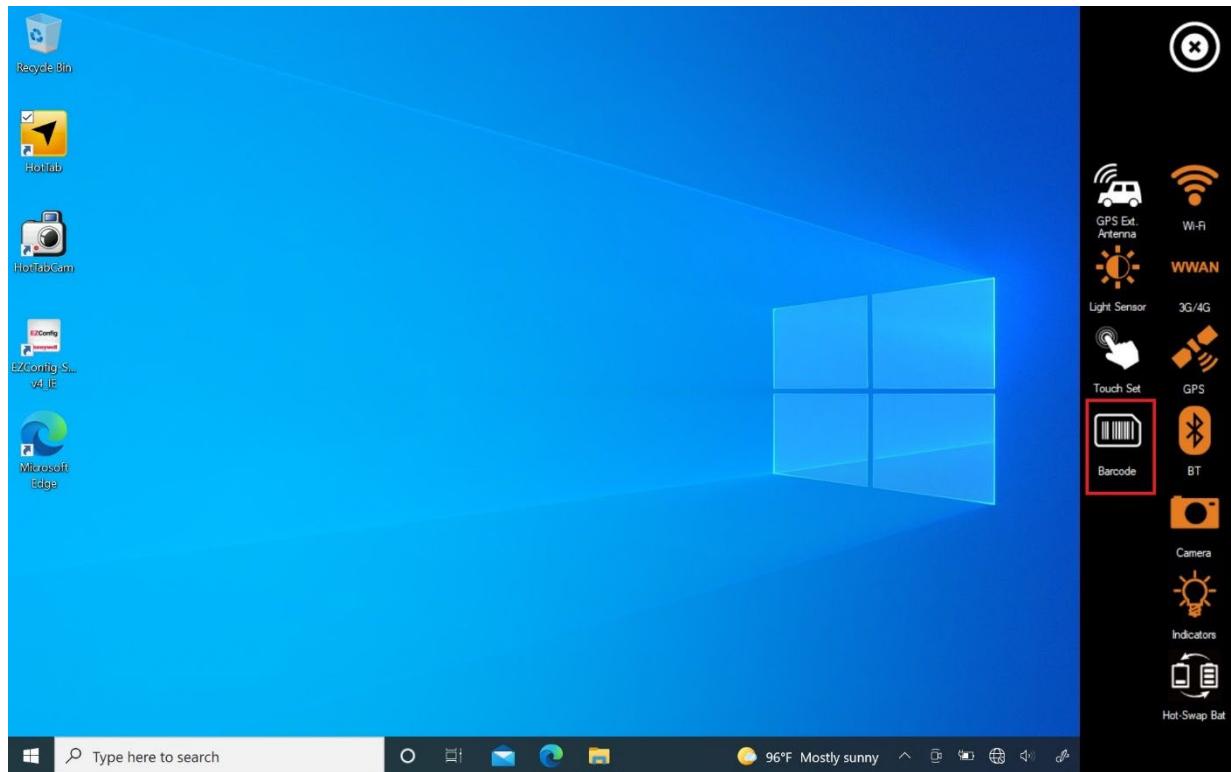
## 5. Save To Device



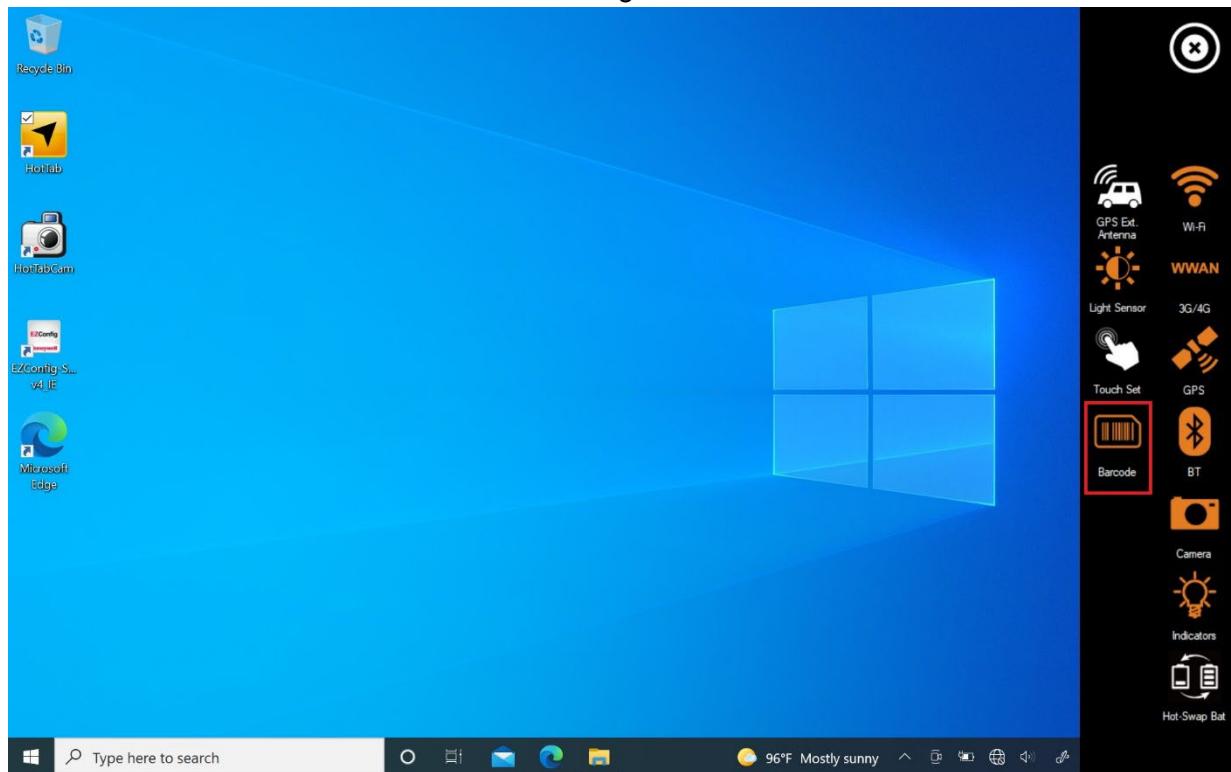
## 6. Open HotTab Utility Icon



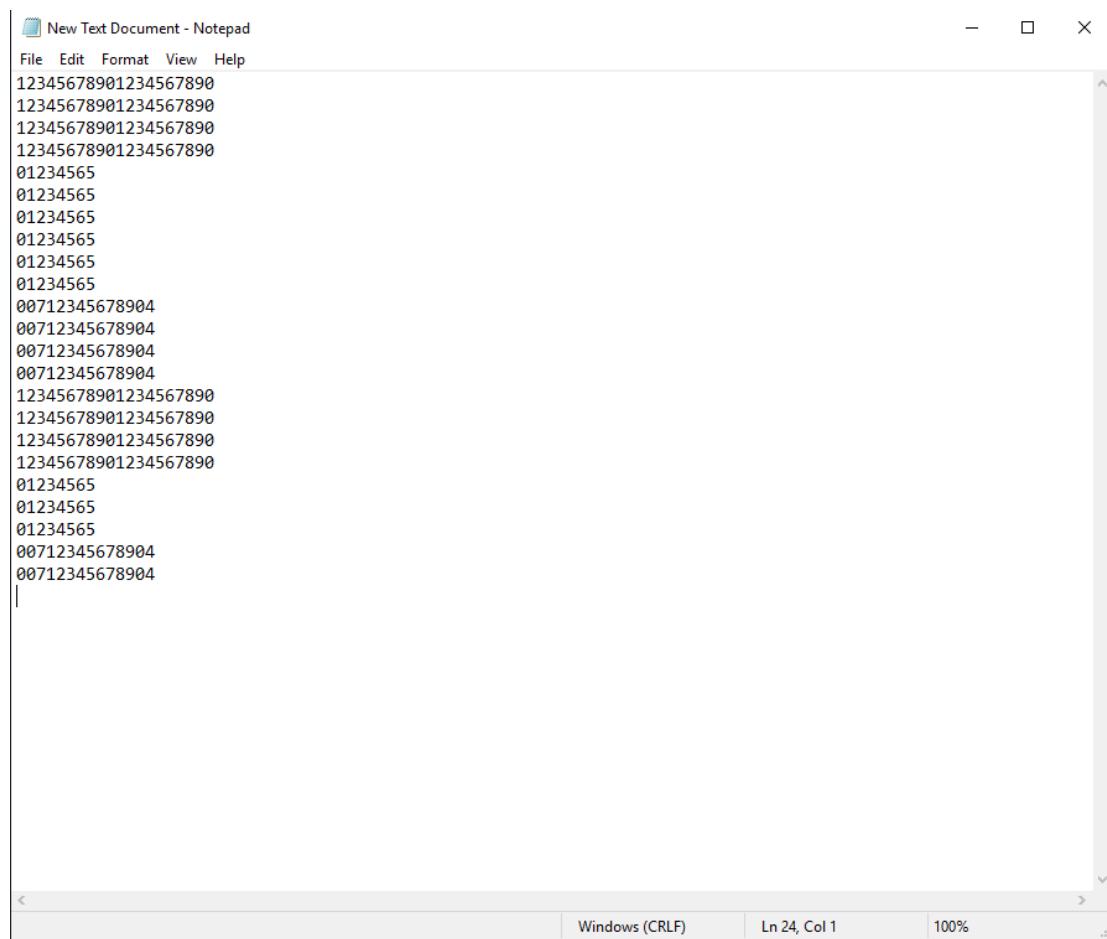
7. Open the HotTab, click the **Device ON/OFF**, and see the Barcode indicator. If it is white, click to turn it on.



8. Barcode Scanner turns On when it is become orange colored.



## 9. Scanned Barcode

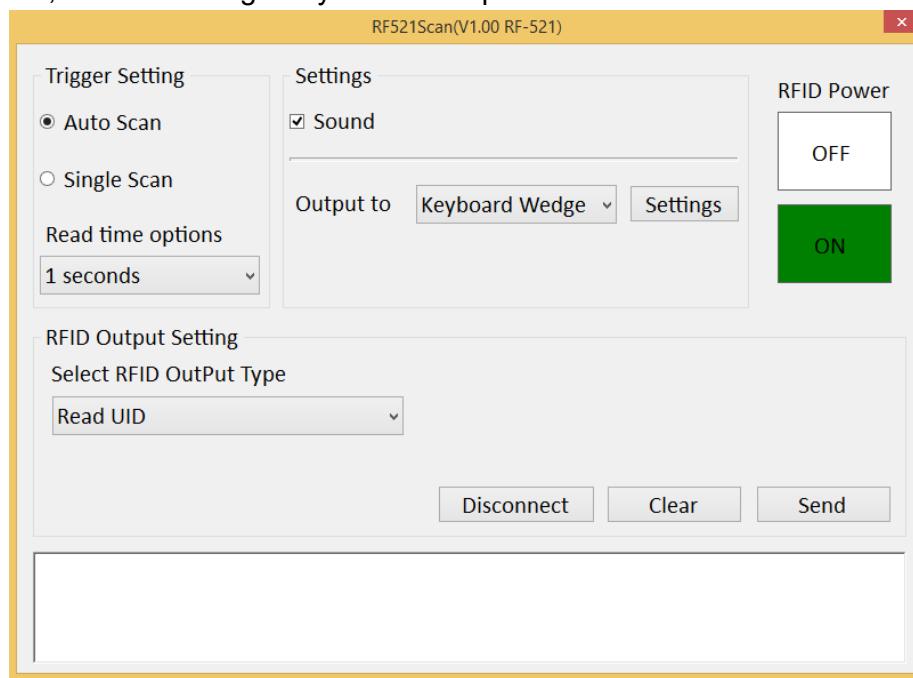


#### 4.4.9 Using the HF RFID Reader

The HF RFID Reader is optional for M101AD Tablet PC and is not re-workable by the end user. To use this feature, please make sure the tablet PC is a built-in HF RFID reader before use, or contact our sales contact window for more details.

*To enable the HF RFID Reader feature:*

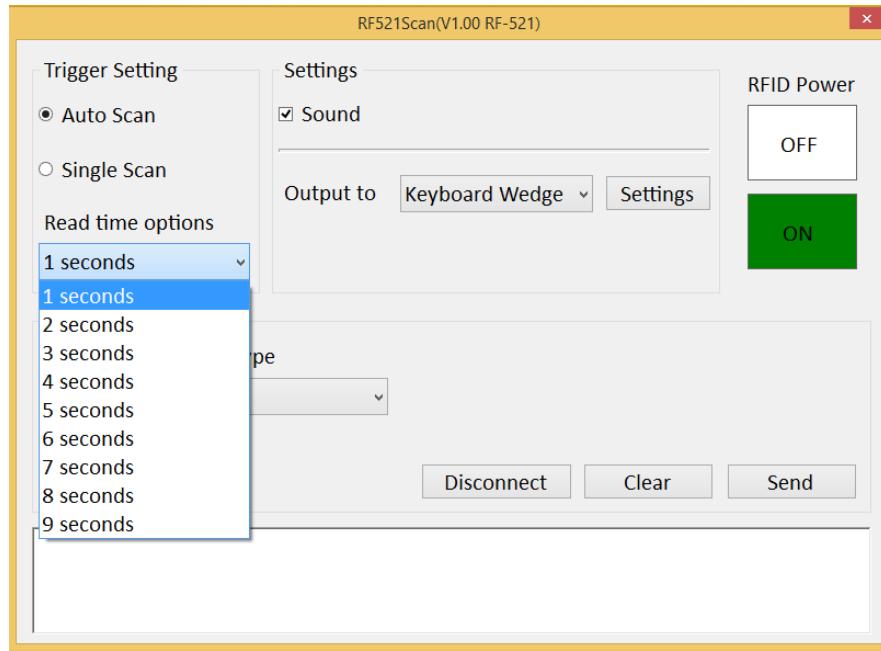
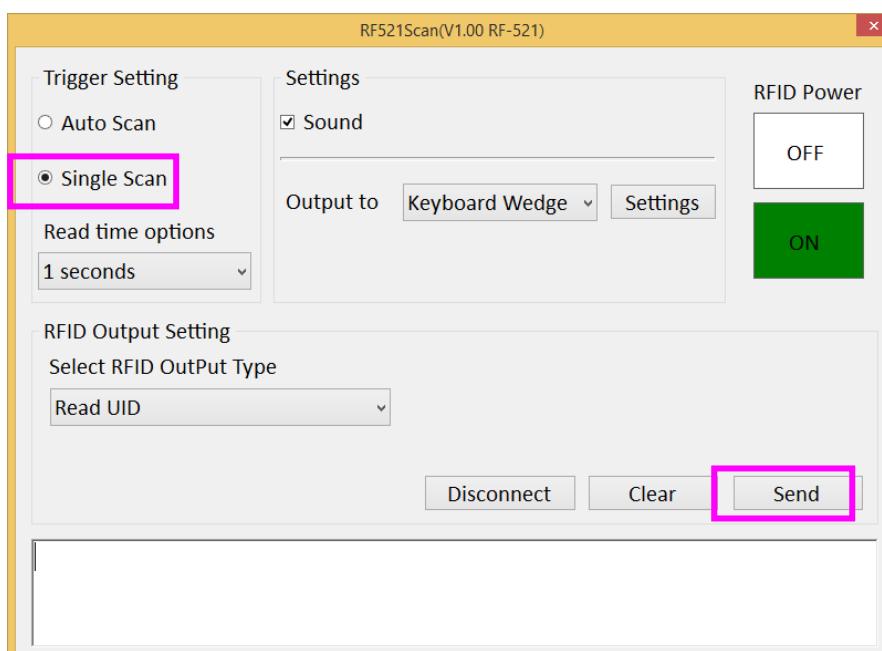
1. Open the HotTab utility by press the  (Menu) Button located on the front panel OR launching the HotTab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Tap on **RFID**, and the setting utility will show up as below:



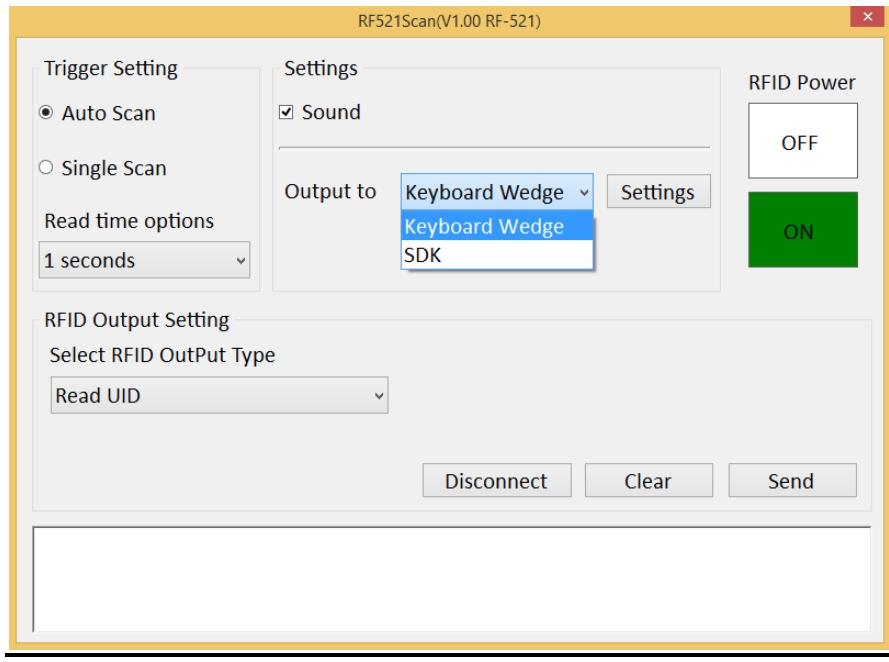
4. Tap on the **ON** button.
5. Check the status color of the **ON** icon is green and the status color of the **RFID** icon on the HotTab menu is orange at the same time.

Item	Status Color	Description
 <b>RFID</b>	Orange	HF RFID Reader is enabled.
	White	HF RFID Reader is disabled.

#### 4.4.9.1 RFID Trigger Setting

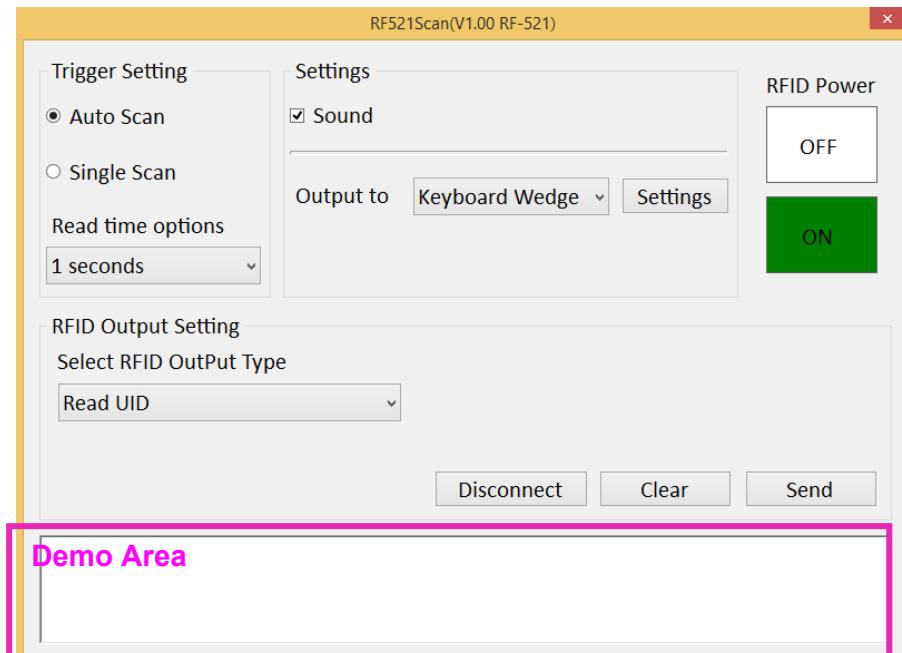
Item	Description
Auto Scan	<p>The default setting for the RFID trigger is Auto-Scan. Under this setting, the RFID Reader will always be ready to scan tags.</p> <ol style="list-style-type: none"> <li>When the RFID tag is detected from the RFID antenna, the data will be read automatically.</li> <li>User can define the RFID scanning frequency from the drop-down menu shown as below. The frequency can be from 1 second to 9 seconds.</li> </ol> 
Single Scan	<p>User can also define the RFID Reader scanning as a <b>Single Scan</b>. Under this setting, the RFID Reader will be triggered only when the user clicks on <b>Send</b>.</p> 

#### 4.4.9.2 Settings

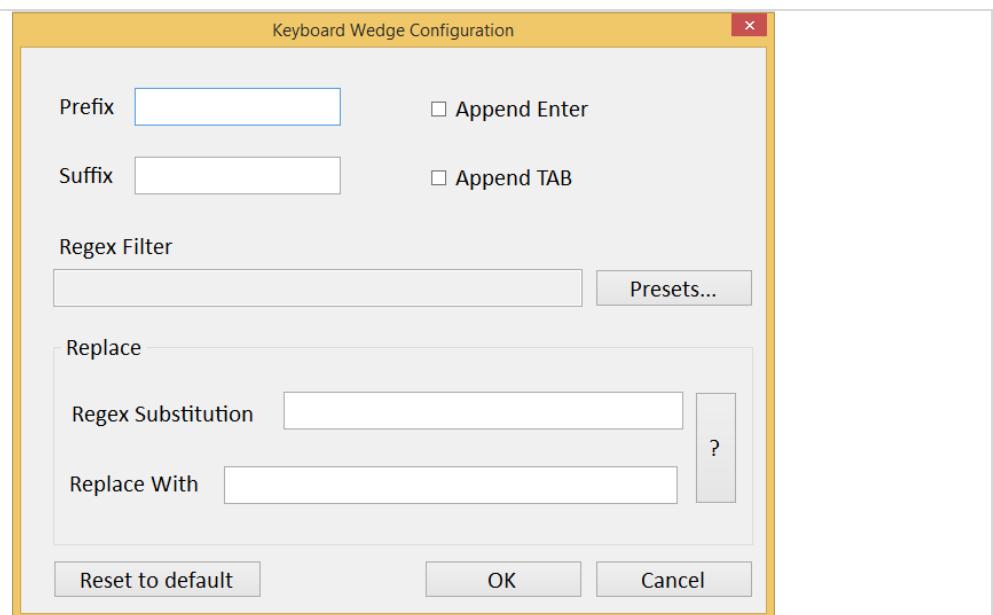
Item	Description
Sound	The <b>Sound</b> check box defines whether a beep sound will come with the data scanning.
Output to	This setting defines the output type of the scanned data. Two options are available:
	 <p>The screenshot shows the 'RF521Scan(V1.00 RF-521)' software window. In the 'Output to' dropdown menu, 'Keyboard Wedge' is selected. Other options in the menu include 'Keyboard Wedge' (selected) and 'SDK'. The window also includes sections for 'Trigger Setting' (Auto Scan selected), 'Settings' (Sound checked), 'RFID Power' (OFF), and 'RFID Output Setting' (Select RFID OutPut Type set to Read UID). Buttons for 'Disconnect', 'Clear', and 'Send' are at the bottom.</p>

#### Keyboard Wedge

Under this setting, the data scanned is sent like keyboard data. The scanned data can be output directly to the demo area below this window. For data input, the user can also open other utilities, such as Office Word or Notepad files.



**Note:** notice that the input method should support the scanned character.  
User can also tap on the **Settings** button for further details settings.



Item	Description
Prefix	User can type in this field to define the characters BEFORE the data scanned.
Suffix	User can type in this field to define the characters AFTER the data scanned.
Append Enter	The check box user can define to append an “Enter” which is followed by the characters.
Append TAB	The check box user can define to append an “TAB” which is followed by the characters.
Regex Filter	Press on “Presets...” button, user can define how many characters to show after the data scanned. 
Replace	User can define specific characters to be replaced with preferred characters automatically. When the characters defined in <b>Regex Substitution</b> is scanned, the data will be replaced with the one filled in <b>Replace with</b> .
Reset to default	User can remove all the setup and back to default mode.

## Software Development Kit (SDK)

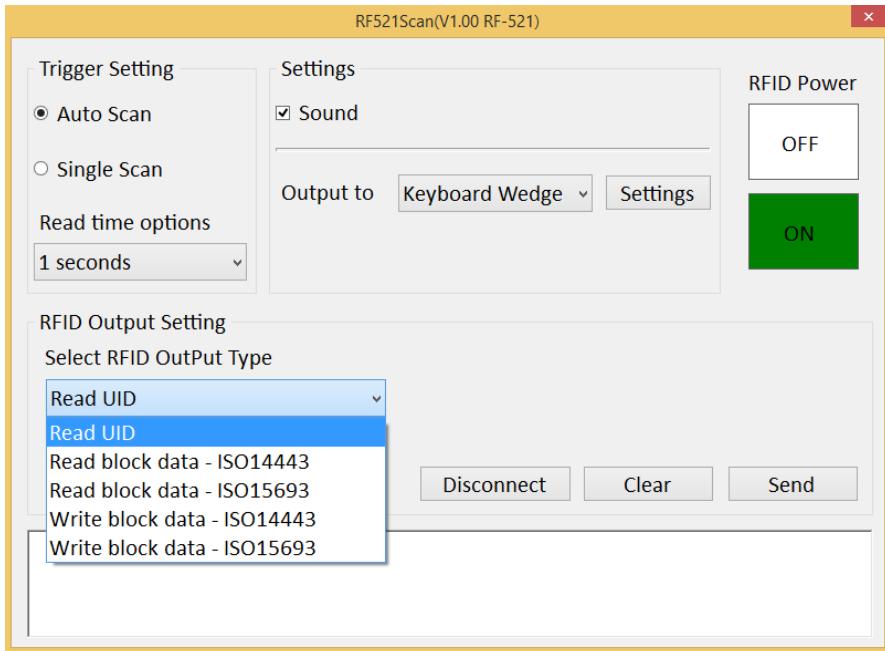
For users following SDK for software porting, the scanned data can also be output with the format needed.



### **NOTE:**

User can download the SDK from Winmate Download center (the QR code in the cover page).

### **4.4.8.3 RFID Output Setting**

Item	Description
Select RFID Output Type	<p>The default setting for built-in HF RFID Reader is to <b>Read UID</b>. For some applications, user might need to read or write further block data; the drop-down menu under this section can do this change.</p> 
Disconnect	<p>User can tap on the <b>Disconnect</b> button to stop the connection with a built-in HF RFID reader.          *To recover the connection, please turn off the module from setting UI and then turn on the module again.</p>

#### 4.4.10 Turn on/off the GPS External Antenna

The vehicle dock of M101AD Tablet PC supports an external GPS antenna through a standard SMA connector. To work with an external GPS antenna, please make sure the tablet PC is well installed to the vehicle dock, and the vehicle dock has connected with an external GPS antenna.

When working with the vehicle dock connecting to the external antenna, user can switch GPS antenna from the internal one to the external one from HotTab menu.

*To enable/disable the GPS Ext. Antenna:*

1. Open the HotTab utility by press the  (Menu) Button located on the front panel OR launching the HotTab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **GPS Ext. Antenna** icon:

Item	Status Color	Description
 <b>GPS Ext. Antenna</b>	Orange	GPS Ext. Antenna is enabled and using external antenna if available
	White	GPS Ext. Antenna is disabled and using built-in antenna

4. If the GPS Ext. Antenna is disabled (white), tap on the GPS Ext. Antenna icon to enable it (orange).

#### 4.4.11 Turn on/off the Light Sensor

The Light Sensor can be turned on/off from HotTab menu. To enable/disable the Light Sensor, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel OR launching the HotTab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **Light Sensor** icon:

Item	Status Color	Description
 <b>Light Sensor</b>	Orange	Light Sensor is enabled.
	White	Light Sensor is disabled.

#### 4.4.12 Changing Touchscreen Modes

The tablet computer supports three built-in operating modes for different usage scenarios:

Mode	Description
 Hand/Rain (Default)	In <i>Hand/Rain</i> mode, the touchscreen rejects false inputs from liquid drops. When the liquid is removed, the touchscreen accepts touch inputs from bare fingertips. <i>Supports input by:</i> <ul style="list-style-type: none"> <li>Rubber tip passive stylus</li> <li>Bare fingertips</li> </ul>
 Stylus	In <i>Stylus</i> mode, the touchscreen supports inputs from the fine-tip passive capacitive stylus (shipped with tablet). <i>Support input by:</i> <ul style="list-style-type: none"> <li>Fine-tip passive stylus with palm rejection</li> <li>Rubber tip passive stylus</li> <li>Bare fingertips</li> </ul>
 Glove	In <i>Glove</i> mode, the touchscreen supports inputs while the user is operating the touchscreen with gloves on. <i>Supports input by:</i> <ul style="list-style-type: none"> <li>Glove</li> <li>Rubber tip passive stylus</li> <li>Bare fingertips</li> </ul>

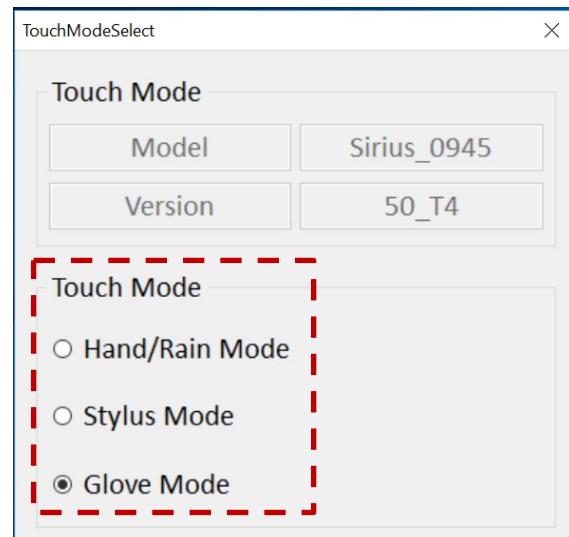
To change touch mode:

- (1) Shortly press Function Key 1 (To define the function key refer to User Manual, Chapter 4).
- (2) Press  (Menu) button on the front to open HotTab, or launch HotTab Utility application.  
Choose **Device ON/OFF**, and then click **Touch Set** icon. 

#### 4.4.12.1 Switch via Built-in HotTab Utility

To switch touchscreen mode via the HotTab:

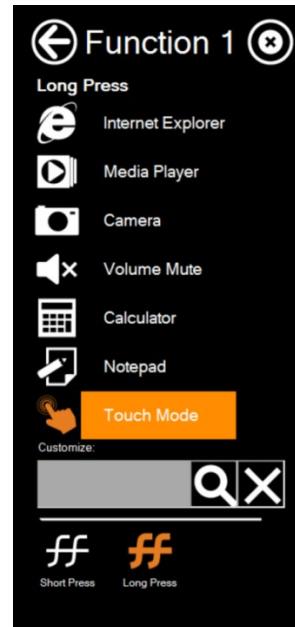
1. Open HotTab utility by pressing  (Menu) Button located on the front panel OR launching HotTab Utility application.
2. Choose **Device ON/OFF** and then click on **Touch Set** icon 
3. Under the **Touch Mode**, select the desired touch modes by tapping on the radio button.
4. Here's also additional touch-related setting to switch the touchscreen input between mouse mode with a cursor or with multi-touch mode:  
*Mouse Mode:* Single touch point supported, with mouse cursor shown.  
*Multi-touch Mode:* The default setting of the touch screen supports multi-touch mode (up to 10 points)



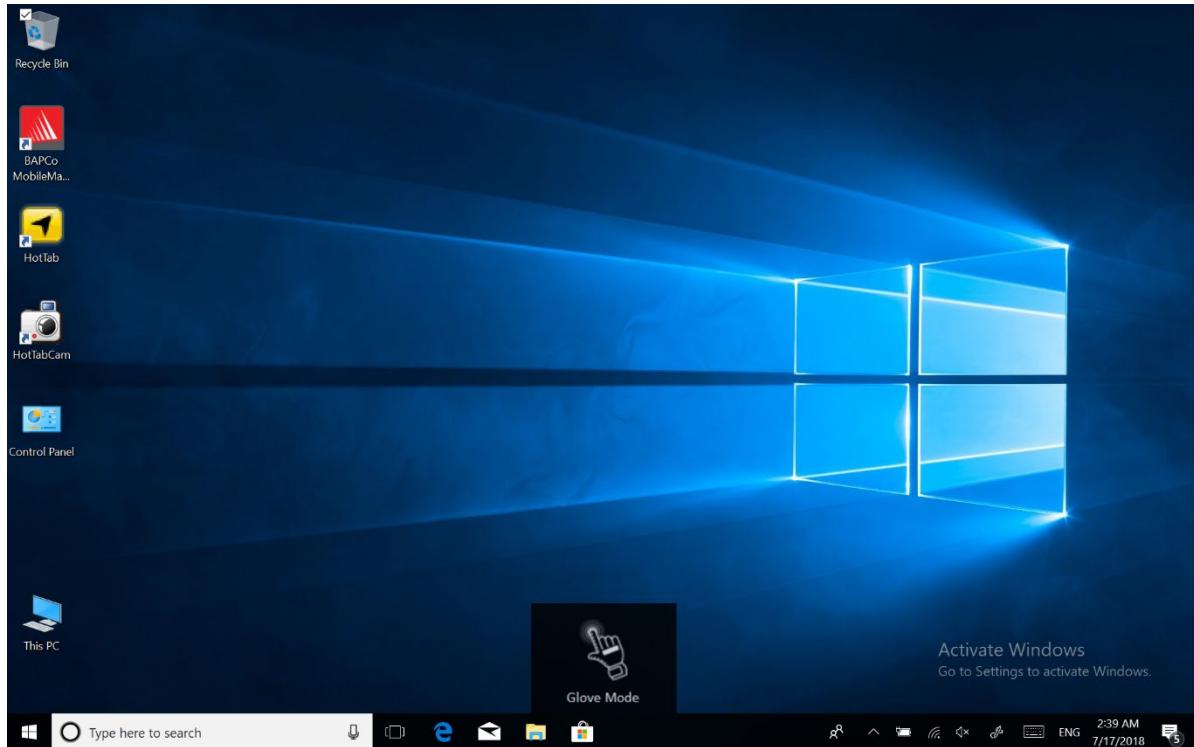
#### 4.4.12.2 Switch via Programmable Function Buttons:

To switch between the different touchscreen modes via the programmable function buttons, make sure the touchscreen mode switching is set to the programmable function buttons first.

1. Open HotTab utility by pressing  (Menu) Button located on the front panel OR launching HotTab Utility application.
2. Tap on the **Setting** button.
3. Tap on **Fn1** icon.
4. Tap on the **Long Press** icon.
5. Change the Long Press function to **Touch Mode** as shown below:



Once the touchscreen mode switching is set to the programmable function button, **Long Press** on **Fn1** function button to cycle through the different touchscreen modes. When touchscreen mode is switched, an icon will temporarily overlay on the lower center of the screen to indicate the current touchscreen mode:



# Chapter 5: Frequently Used Settings

## 5.1 Screen Resolution Scaling and Setting

The M101AD's 1920 x 1200 high-resolution display is perfect for viewing images, video, or other applications. However, the Windows user interface (icons, buttons, and other user interface elements) may be too small to read and operate at the default Windows settings. By changing the display scaling or the display resolution setting of the device, you can adjust the size of the text and other items on the desktop for optimal viewing. Display scaling is the recommended method because it has the effect of adjusting user interface elements without moving away from the optimal resolution setting at 1920 x 1200. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.

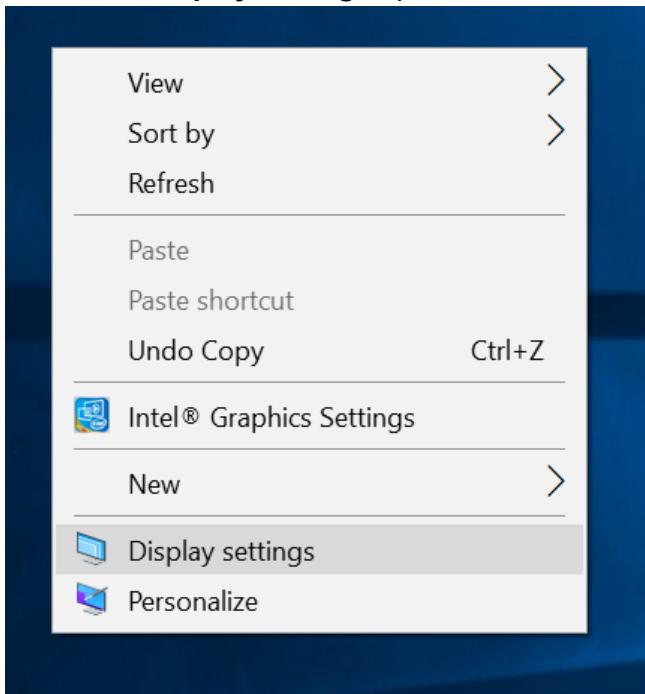


**Note:** The Tablet computer is shipped with a display scaling set at **Larger - 150%**. We recommend the users set the scaling to this setting for optimal text and image viewing. Before proceeding to change the scaling option, make sure any opened document is saved and close, and all running applications are closed before proceeding to change the display scaling, because this procedure requires users to log out of their account to apply display scaling change.

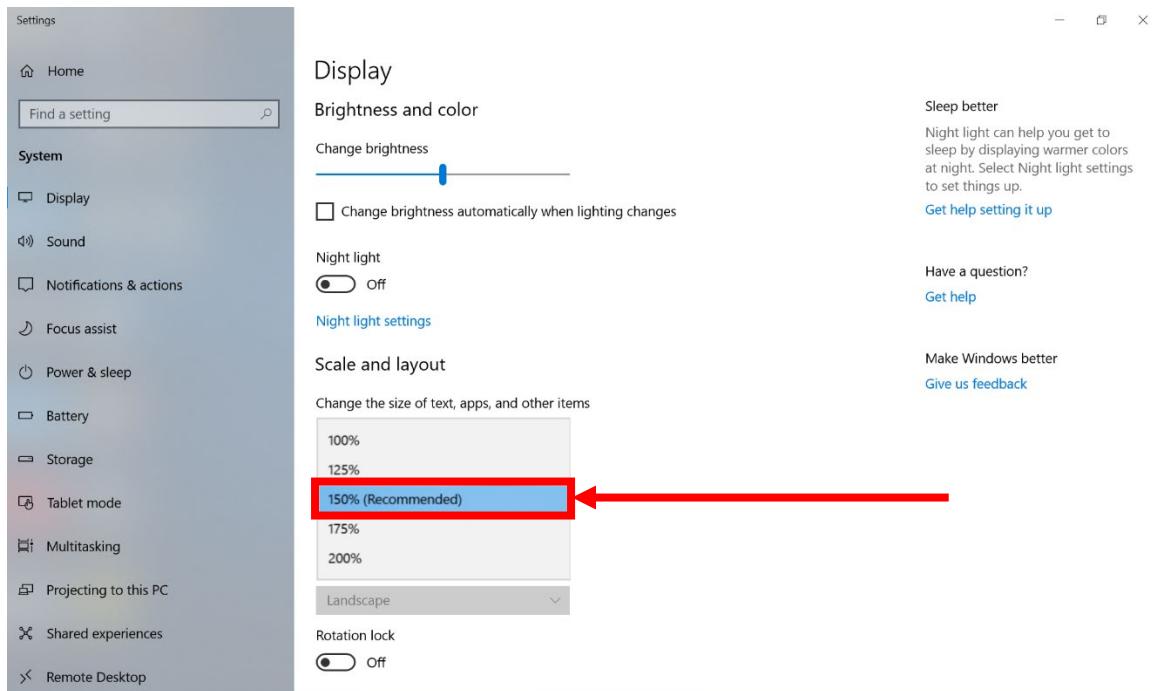
### 5.1.1 Changing Display Scaling (Recommended)

Perform the following to change the display scaling setting:

1. Tap and hold anywhere on the desktop for 3 seconds and release to bring up the context menu, and select **Display settings** option as shown below:



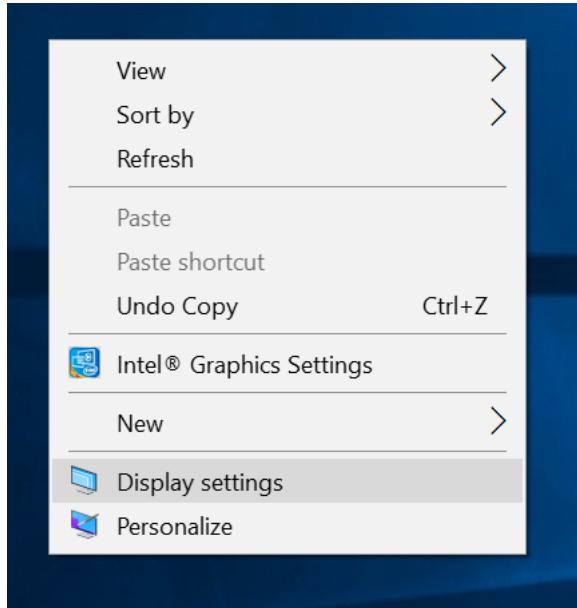
2. A Display Window will show up. Click on the drop-down option under the **Scale and layout** section and change the scaling option to **150% (Recommended)** or any other desired display scaling.



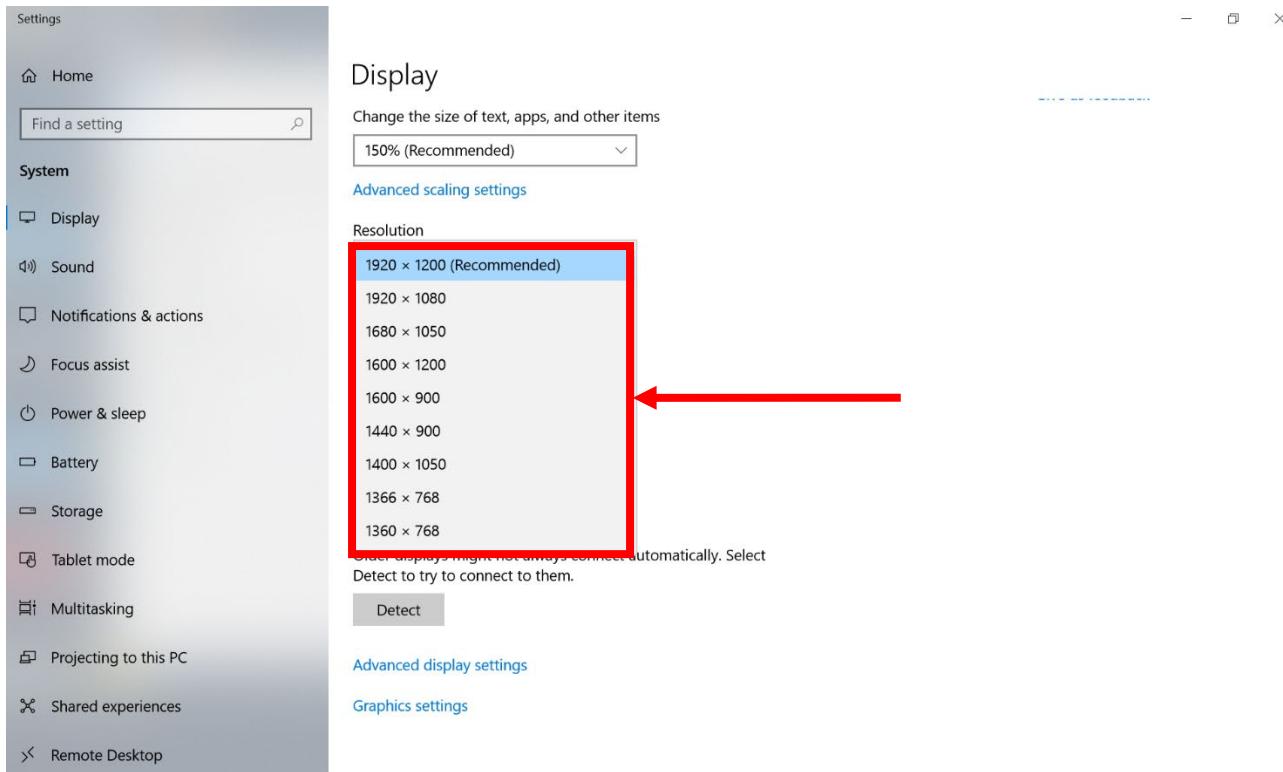
### 5.1.2 Changing Screen Resolution

Alternatively, instead of changing the display scaling setting, user may choose to change the overall resolution setting to make screen elements bigger.

1. Tap and hold anywhere on the desktop for 3 seconds and release to bring up the context menu, and select **Display settings** option as shown below:



2. Click on the dropdown option next to **Resolution** and select the desire resolution by tapping on the scale:



3. Hit **Apply**. A **Display Settings** prompt will show up to ask the user if the applied resolution is usable.
4. If the new resolution is the desired display setting hit **Keep changes** and continue to next step. If the new resolution is not desirable, hit **Revert**, select a different resolution to change to, and start again from Step 2.
5. The user may now use the device with the new resolution setting.

## 5.2 Using Recovery Wizard to Restore Computer

M101AD Tablet Computer has a dedicated recovery partition stored on the tablet's hard drive to enable a quick one-key recovery process. This partition occupies about 11GB of the storage space and comes built-in to each M101AD Tablet Computer.



**Warning!** Before starting the recovery process, be sure to backup all user data, as all data will be lost after the recovery process.

**Avertissement!** Avant de démarrer le processus de récupération, assurez-vous de sauvegarder toutes les données utilisateur, car toutes les données seront perdues après le processus de récupération.

*Follow the procedure below to enable quick one-key recovery:*

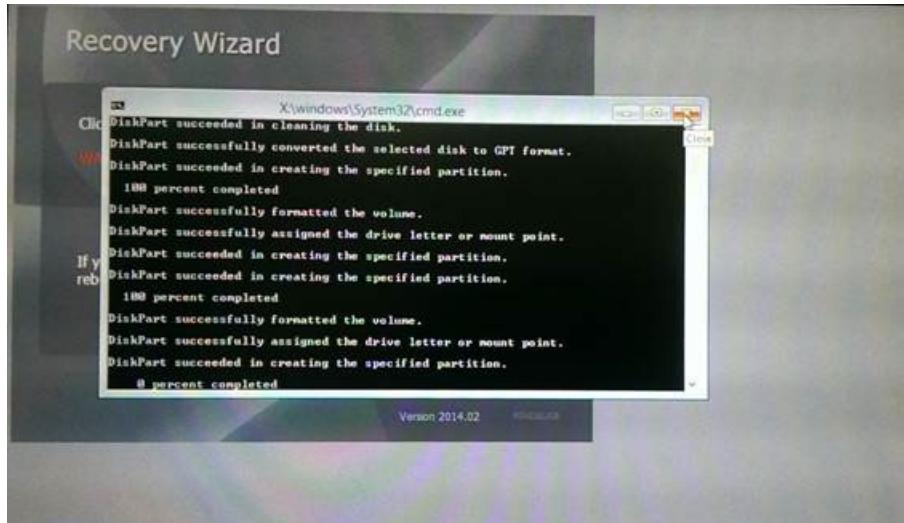
1. Plug-in the AC adapter to the tablet computer. Make sure the tablet computer stays plugged into power source during the recovery process.
2. Power on the tablet computer, and when the boot screen shows up, press the **Fn1** button (Recovery Key) on the front bezel OR press **F6** when using an external USB keyboard to initiate the Recovery Wizard.
3. The following screen shows the Recovery Wizard. Click on **Recovery** button to continue.



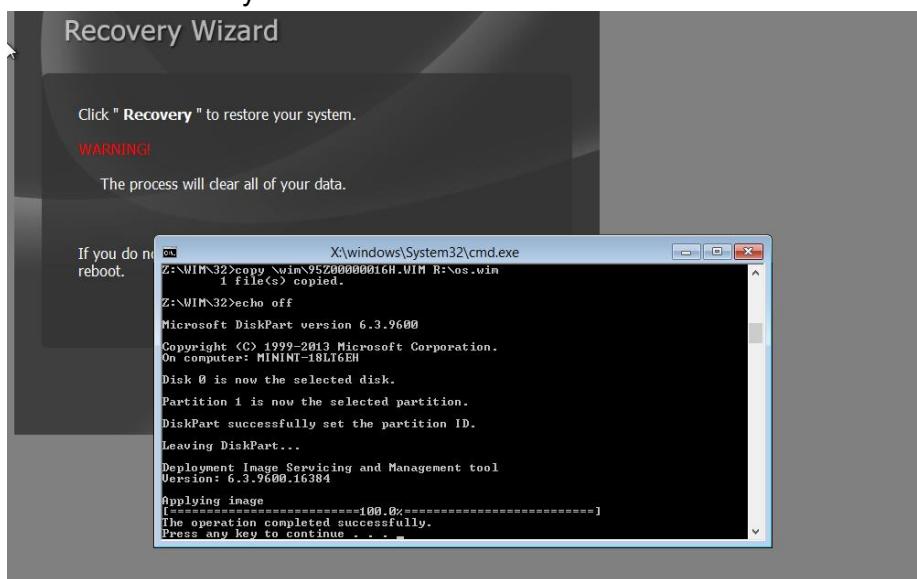
4. A warning message about data loss will show up. Make sure data is backed up before recovery, and click on **Yes** to continue.



5. Wait till the recovery process to complete. During the recovery process, a command prompt will show up to indicate the percent of the recovery process.

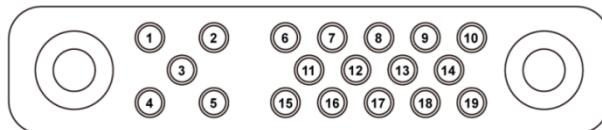


6. After the recovery is completed, please press any key to continue, and the tablet computer will shut down automatically.



## 5.3 Docking Connector Pin Definition

M101AD tablet computer supports one 19-pin docking connector at the bottom side. The pin definition is listed in the following table.



19 Pin Docking Connector			
Pin No.	Description	Pin No.	Description
1	RF_GND	11	NC
2	DOCK_DET#	12	NC
3	GPS ANT	13	GND
4	RF_GND	14	Power
5	RF_GND	15	USB+
6	NC	16	USB-
7	NC	17	GND
8	DETECT+	18	GND
9	Power	19	DETECT-
10	Power		

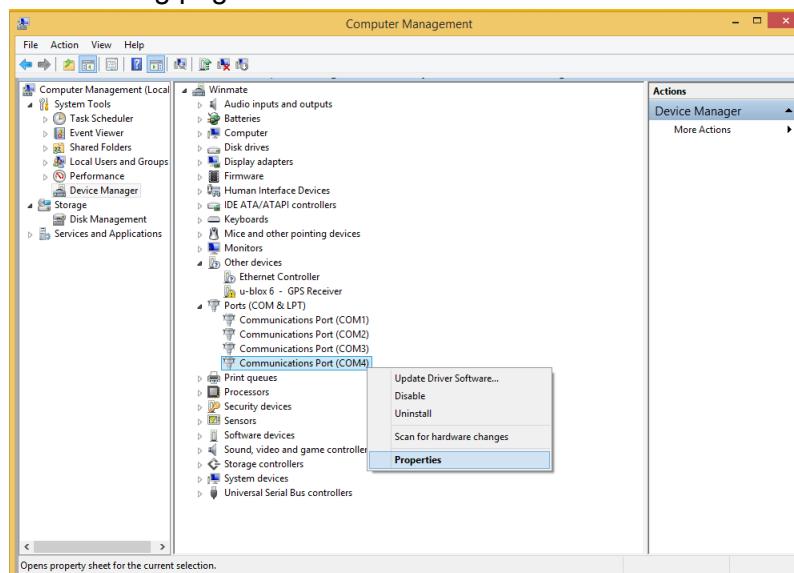
## 5.4 COM Port Definition

M101AD tablet computer uses HotTab utility for built-in peripherals control. All the COM port numbers have been defined in the OS image coming with the package.

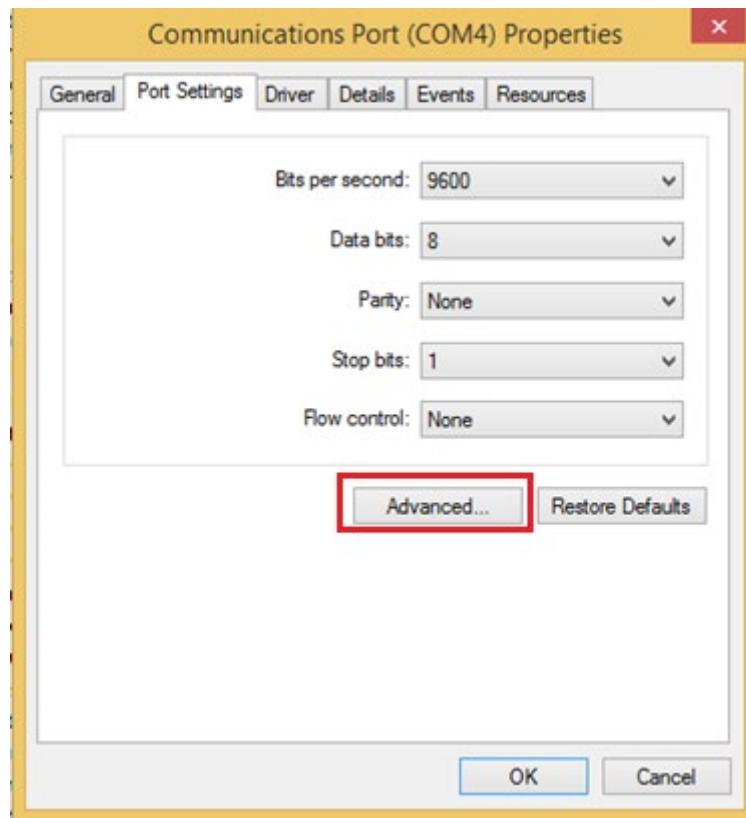
COM Port	Device
COM 1	Reserved
COM 2	Reserved
COM 3	HF RFID (optional)
COM 4	BT Auto Pairing
COM 9	GPS
COM 11	RS232 at Docking (optional)

For some special applications, a user might re-install OS and lose the COM port settings. To make sure the features work properly with HotTab utility, please follow the procedure below to re-define the COM port numbers:

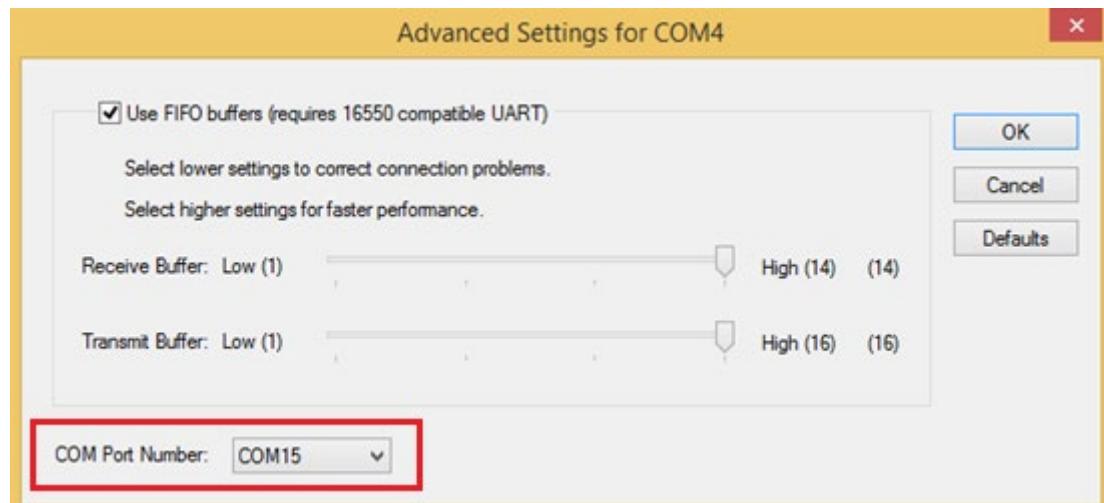
1. Go to **Device Manager**, right click on the COM number that needs to be changed, and tap on **Properties** to open the setting page.



2. Tap on the **Port Setting** tab and click on the **Advanced** button.



3. Tap on the drop-down list, choose the correct COM Port Number (refer to the COM Port Definition Table), and click **OK**.



4. Double-check **Device Manager** to make sure the COM Port number has been re-defined successfully, and then restart the system.

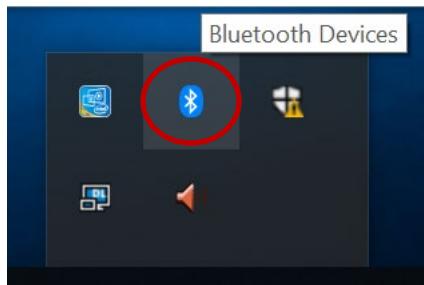
## 5.5 Pairing with a Wireless BT Barcode Scanner

The computer is affixed with a BT MAC (Media Access Control) address barcode label that enables wireless BT Barcode Scanner to quickly establish BT connection with the computer. It is encoded with leading characters to instruct the wireless BT barcode scanner to initial BT Serial Port Profile pairing request.

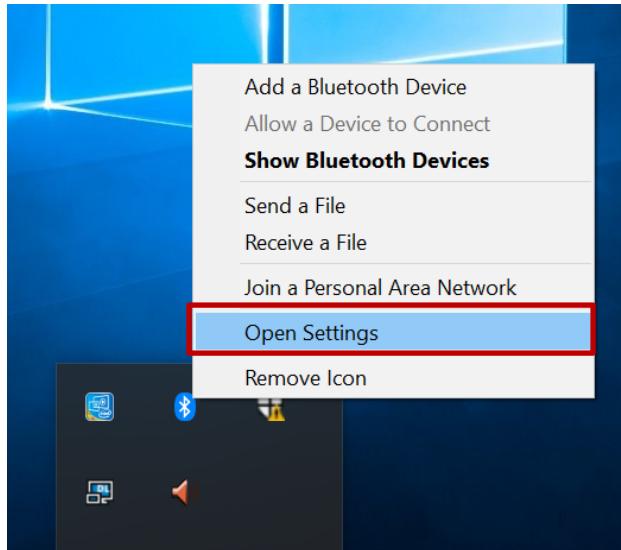
### 5.5.1 Setup Computer for BT Pairing

To start the pairing process, first, perform the following steps to ensure the computer is properly set up for pairing:

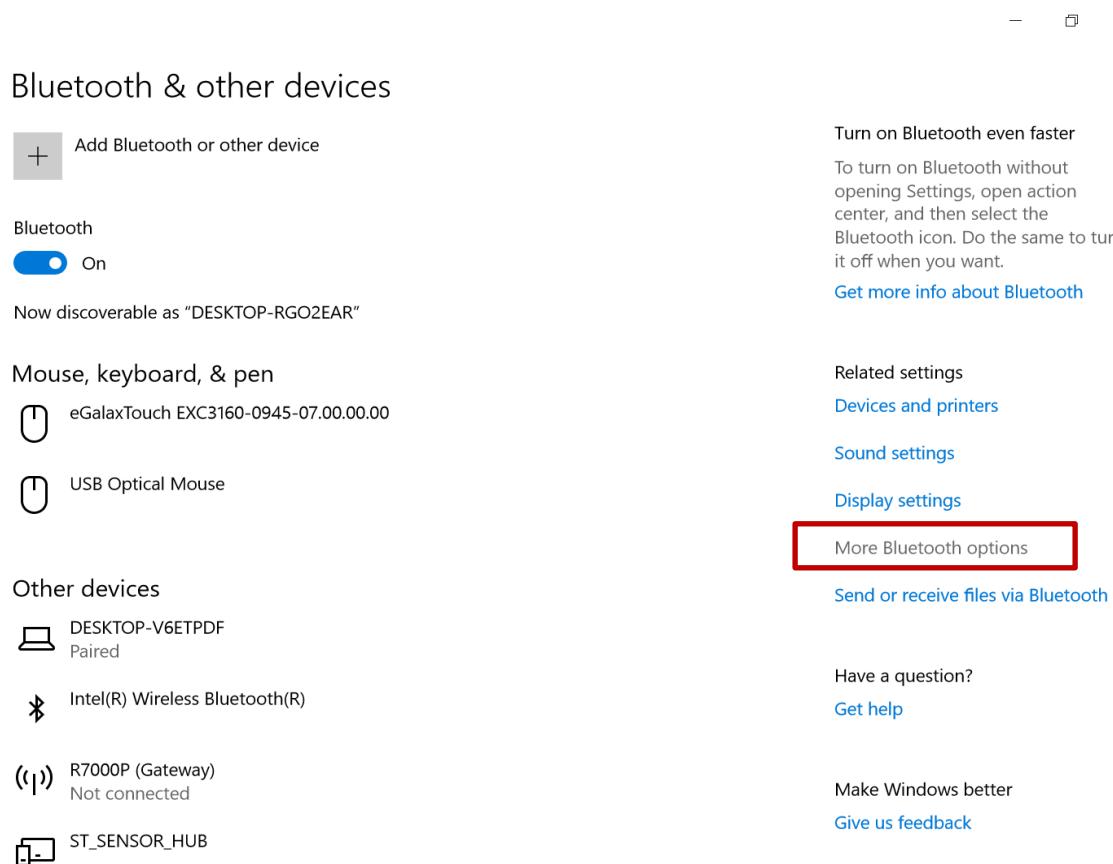
1. Locate the **BT** icon in the Notification Area



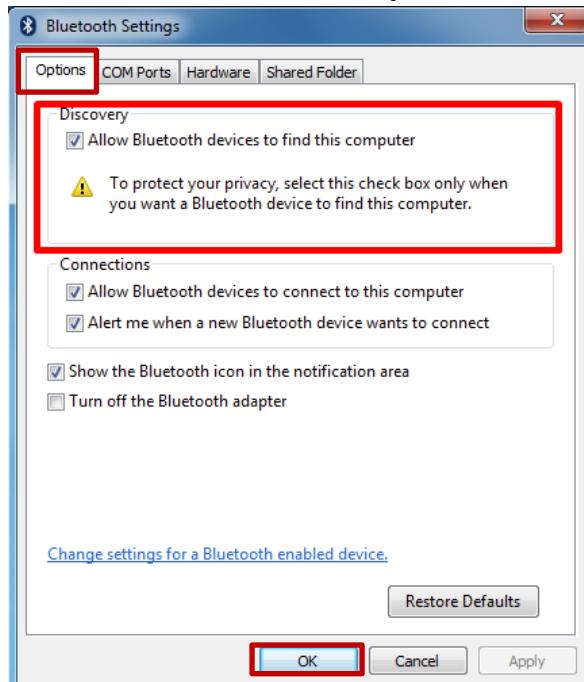
2. Bring up the Contextual Menu by performing a long press on the icon with touchscreen or right-click on the icon with a mouse and select **Open Settings**.



3. Once the **BT & other devices** Menu appears, click **More BT options** under Related settings section as shown below.

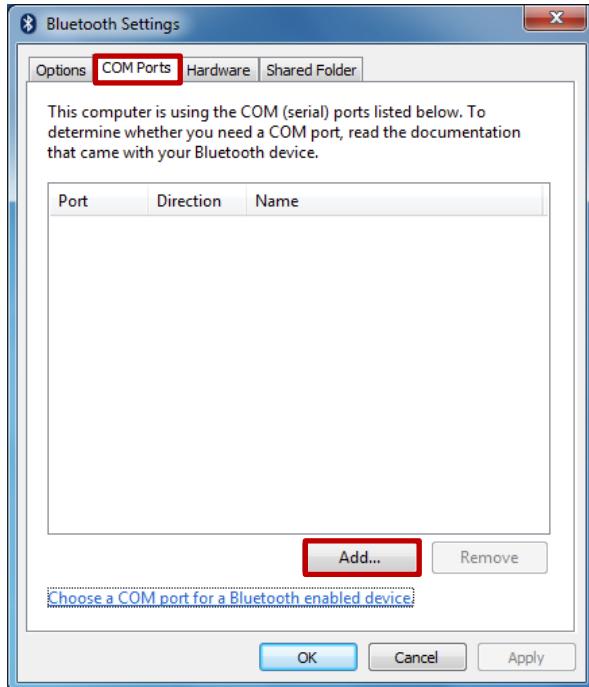


4. Go to the **Options** tab, and make sure that in the Discovery section, the computer is set to **Allow BT devices to find this computer**, as shown below:

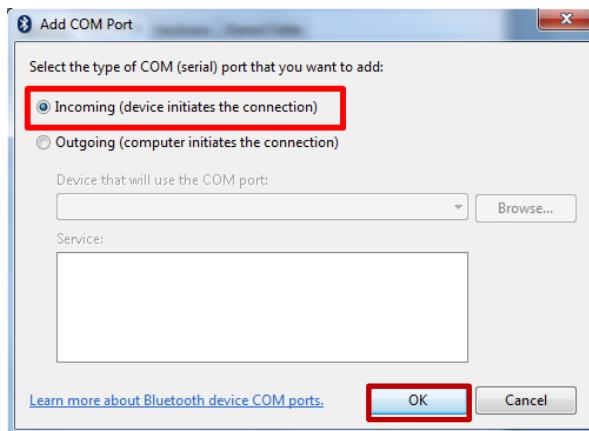


Click **OK** to continue.

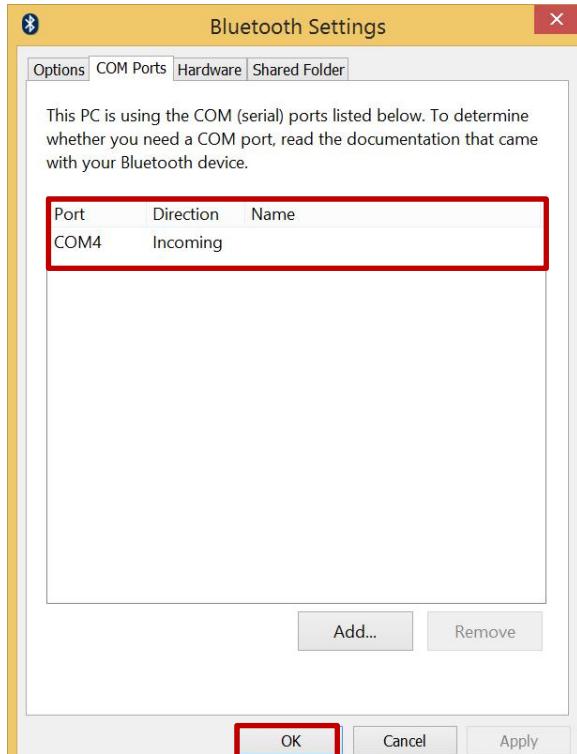
5. In the **BT Settings** menu, go to **COM Ports** tab. COM port has to be set up for the wireless BT Barcode Scanner to communicate via the BT Serial Port Profile. Click on the **Add...** button.



6. You are in Add COM Port window. Choose **Incoming (device initiates the connection)**, and click **OK**.



7. The computer will automatically assign COM Port to the BT connection. In the screenshot below, **COM4** is allocated.



Click **OK** to continue.

8. Next, the user has to configure the application to accept the scanned data from the wireless BT Barcode Scanner. The application has to be configured to accept the same COM Port that has been assigned for the BT Serial Port Profile in the previous step.



**Important:** Make sure the application stays open while pairing.

9. Now the computer is ready for the pairing process to start.

## 5.5.2 Set up the Barcode Scanner for BT Pairing



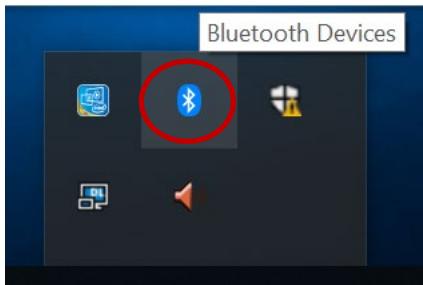
**Important:** The wireless BT Barcode Scanner has to be configured as BT Serial Port Profile Master device to establish connection via BT MAC address barcode label. For a more detailed instruction, please refer to the User Guide for the wireless BT Barcode Scanner you are using for paring.

Now the Barcode Scanner is ready for the pairing process to start.

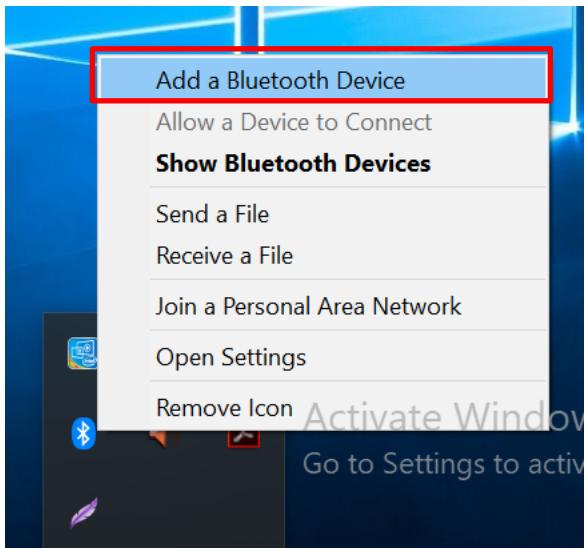
## 5.5.3 Perform BT Pairing

After you finish setting up both the Computer and Barcode Scanner, you are ready to start pairing.

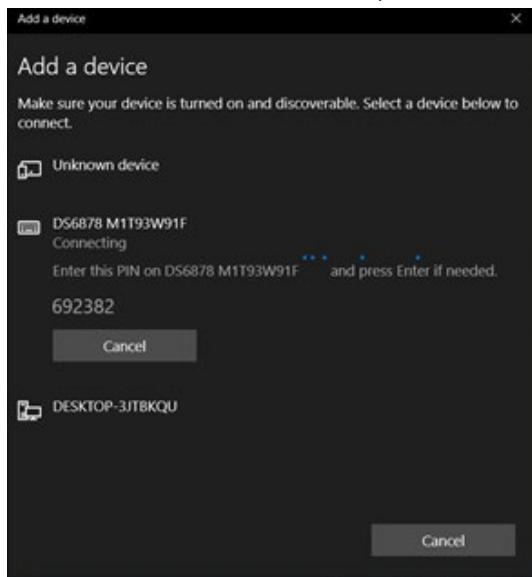
1. Open a program that is used for paring.
2. Perform scanning procedures. A BT notification window pop-up on the right-hand side of the desktop. Left-click on the mouse to enter Add a device menu.
3. Locate the **BT** icon  in the Notification Area.



4. Click **Add BT Device**.

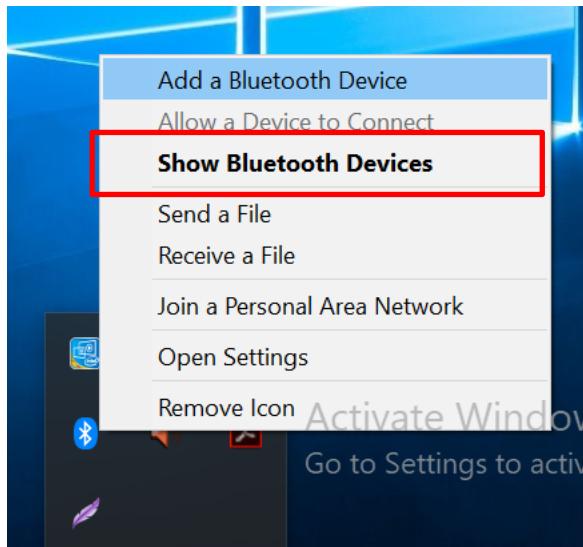


5. In Add a BT Device window, click **Next** to connect the Barcode Scanner to the Computer.



To ensure that BT Device is successfully paired to the computer, follow the steps below:

1. Locate the **BT** icon in the Notification Area. Select **Show BT Devices**.



You can access this menu in the Control Panel:

Windows → Control Panel → Devices and Printers → BT Devices

2. Make sure your device is connected to the computer.

# Chapter 6: Troubleshooting

## 6.1 Basic Troubleshooting

Problem	Solution
<b>The removable battery is not charging.</b>	<ul style="list-style-type: none"> <li>Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.</li> </ul>
<b>Nothing appears on the screen.</b>	<ul style="list-style-type: none"> <li>The tablet computer may be in sleep mode. Press the power button to wake up the display.</li> <li>The brightness level may be too low. Increase brightness.</li> </ul>
<b>The screen suddenly turns blank and the power indicator goes off.</b>	<ul style="list-style-type: none"> <li>Make sure that LED indicator is not powered off in HotTab.</li> <li>Make sure the AC adapter is properly connected.</li> <li>If running on battery power, the battery may be depleted, charge the battery.</li> </ul>
<b>Wireless LAN signal quality is poor.</b>	<ul style="list-style-type: none"> <li>The tablet computer may be out of range. Move the tablet computer closer to the access point or another wireless LAN device associated with it.</li> <li>Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.</li> </ul>
<b>I cannot connect to another wireless LAN device.</b>	<ul style="list-style-type: none"> <li>Make sure that wireless LAN feature is powered on.</li> <li>Make sure that the Service Set Identifier (SSID) setting is the same for every wireless LAN device in the network.</li> <li>Restart the tablet computer</li> <li>Make sure the IP address or subnet mask setting is correct.</li> </ul>
<b>I cannot connect to another device with BT.</b>	<ul style="list-style-type: none"> <li>Make sure that both devices have BT powered on (For the Tablet Computer, check HotTab to see if BT is powered on).</li> <li>Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between the devices.</li> <li>Make sure the both devices are powered on and configured to be discoverable.</li> <li>Make sure that both devices are compatible.</li> </ul>
<b>The GPS application cannot find my location.</b>	<ul style="list-style-type: none"> <li>Make sure that GPS is powered on in HotTab.</li> <li>Make sure that GPS receiver and the location sensor are enabled in Control Panel.</li> <li>The tablet computer may be out of coverage area. Move your tablet computer outdoors or closer to a window.</li> <li>Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.</li> </ul>
<b>No sound is produced.</b>	<ul style="list-style-type: none"> <li>Adjust the volume of the tablet computer by pressing on the volume rocker.</li> <li>If using an external audio device, make sure that the cable is properly connected.</li> </ul>
<b>I cannot project the tablet computer display to another monitor.</b>	<ul style="list-style-type: none"> <li>Make sure the VGA driver is installed.</li> <li>Make sure the output setting selected is correct.</li> </ul>

Problem	Solution
<b>Barcode scanner does not emit laser beam and does not seem to work.</b>	<ul style="list-style-type: none"> <li>• Make sure the Barcode scanner device is enabled in HotTab utility.</li> <li>• Make sure under Windows, the Barcode Reader is set to COM 15 port, so that HotTab can trigger the Barcode Reader hardware.</li> </ul>
<b>Barcode Scanner emits laser beam but does not read barcode presented to it.</b>	<ul style="list-style-type: none"> <li>• Adjust the distance between the barcode scanner of the device and the barcode being scanned.</li> <li>• Make sure the barcode code type is enabled in the tablet. To enable/disable a specific barcode code type, go through the “Barcode Scanner Configuration” section.</li> </ul>
<b>I am having GPS accuracy issue</b>	<ul style="list-style-type: none"> <li>• When utilizing the GPS function, we recommend disabling the Barcode Reader in HotTab to reduce interference.</li> </ul>
<b>RFID scanner does not seem to work.</b>	<ul style="list-style-type: none"> <li>• Make sure under Windows, the RFID hardware is set to COM 3 port.</li> </ul>
<b>Battery leaking or swollen</b>	<ul style="list-style-type: none"> <li>• The lithium battery used in this tablet may swell after being charged/ discharged many times, but there is no problem regarding safety.</li> <li>• Continued use in such a state may result in the battery getting jammed, so please stop using the battery, and purchase a new one.</li> </ul>

## Appendix

### Appendix A: Product Specifications

Model Name	M101AD	
Display	Size	10.1 inches
	Resolution	1920x1200
	Brightness	800 nits
	Contrast Ratio	800:1
	Viewing Angle	85,85,85,85
	Touch	Projected Capacitive Multi-Touch
	Bonding	Optical Bonding for Sunlight Viewability
	Viewability	Anti-Glare touch treatment
System Specification	Processor	Intel® Core™ i5-1235U Alder Lake, up to 4.4 GHz
	System Memory	8GB DDR5 SDRAM (up to 32 GB)
	Storage	256GB M.2 NVMe SSD (Options up to 2 TB), Additional storage available with micro SDXC card slot (Optional)
	Security	Trusted Platform Module (TPM) 2.0
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit)
	WLAN	Support
	BT	Support
	GNSS	GPS, GLONASS
	WWAN	4G LTE(Optional) and 5G (Optional)
	RFID	HF RFID 13.56 MHz (Optional)
Camera	Sensors	Light sensor/ G-sensor / Gyro
	Front Camera	2MP Front Camera
Mechanical	Rear Camera	8MP Rear Camera with auto-focus and LED light
	Dimensions	271.5 x 198.2 x 23.3 mm (10.7 x 7.8 x 0.9 inches)
	Weight	1.2kg (2.65 lbs) with standard battery
I/O Ports	Cooling System	Fan design
	USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type C support Power Delivery 20V In and ALT mode)
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic with Noise Cancellation Dual Speaker
	SD Card Slot	1 x Micro SDXC slot
	SIM Card Slot	1 x Micro SIM card slot
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status
	Docking Connector	1 x 19-pin docking connector
Environment	Operating Humidity	10% to 90% RH, non-condensing
	Operating Temperature	-20°C to 60°C
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)
	Shock	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 4 ft
	IP Rating	IP65 certified, dustproof and waterproof
	EMC	MIL-STD-461G CE101, CE102, RE101, RE102, CS118

Model Name	M101AD	
	(Default) MIL-STD-461G CS101, CS114, CS115, CS116, RS101, RS103 (Optional)	
Certification	Certification	CE, FCC
Security Function	SOTI MobiControl Kensington Lock	SOTI MobiControl Compliance Support
Control	Button	1 x Power, 1 x Home 2 x Volume key 2 x Programmable function Keys
Power	Battery Battery Operating Time Power Rating Adapter	Hot-swappable 11.55V, typ. 4588 mAh Li-Polymer Battery (3S2P) Standard. Battery: 8 hours 19V DC 100-240V, 50-60Hz / 19V DC
Barcode Scanner	Barcode Scanner	1D/2D barcode reader (Optional)
Accessory	Standard	Adapter and Power Cord Capacitive Stylus Standard Battery
	Optional	Desk Dock Vehicle Dock (without VGA output) Vehicle Cradle Vehicle Charger Battery Charger Hand Strap Shoulder Strap Carry Bag

**NOTE:**

1. Accessories and Integrated Options may vary depending on your configuration. The product shown in this document is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
3. All specifications are subject to change without prior notice.

# Notes

# Notes



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