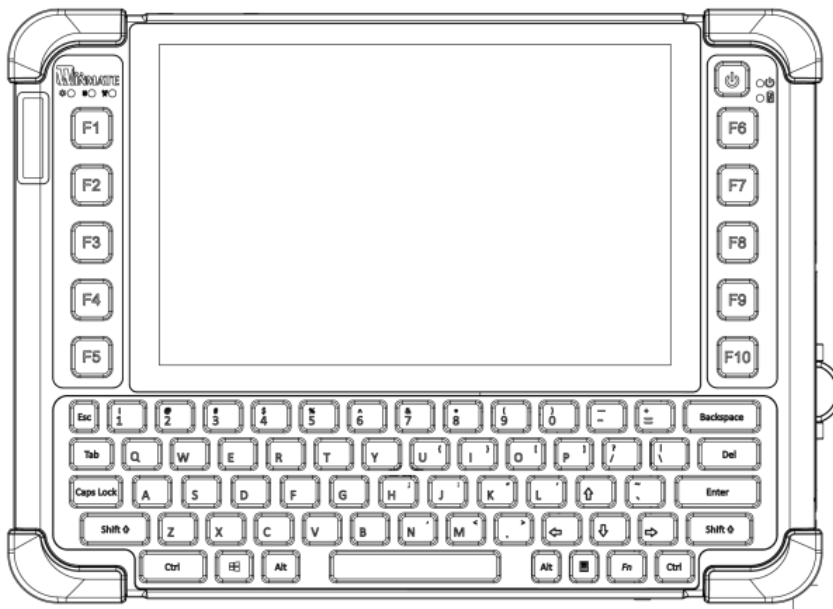


M101EKB

Rugged Windows Tablet

Intel® Celeron® N6211 @ 1.2 GHz (up to 3.00 GHz)

Intel® Pentium® N6415 @ 1.2GHz (up to 3.00 GHz) (Optional)



User Guide

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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 to 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/ Attention**

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

Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème potentiel.

**Warning! Avertissement!**

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

Un Avertissement de Choc Électrique indique le potentiel de choc sur des emplacements électriques et comment éviter ces problèmes.

1.2 Safety Information



Precaution on Battery Pack **Précaution avec le bloc-pile**

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

Ne pas exposer le bloc-pile à une Chaleur Excessive, ou une Chaleur Extrême (Près d'un feu, sous la lumière du soleil par exemple) Une production de chaleur, l'amorçage ou la rupture peuvent être occasionnés

Do Not Disassemble, Modify, or Insert Sharp Objects Into the Battery Pack. Electrolyte leakage, generation of heat, ignition or rupture may result.

Ne pas démonter, modifier, ou insérer des objets pointus à l'intérieur du bloc-pile. Une fuite d'électrolyte, la génération de chaleur, l'amorçage ou la rupture peuvent être occasionnés.

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.

Ne pas court-circuiter les bornes Positive (+) et Négative (-) de la pile, la génération de chaleur, l'amorçage ou la rupture peuvent être occasionnés. Lors du transport et du rangement de l'appareil, ne pas placer le bloc-pile en même temps que des articles pouvant créer un contact électrique.

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 occur.

Ne pas faire subir de choc à la pile en la laissant tomber ou en appliquant une forte pression dessus. Une fuite d'électrolyte, la génération de chaleur, l'amorçage ou la rupture peuvent être occasionnés.

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.

Ne pas charger la pile par d'autres méthodes que celles spécifiées dans ce manuel. Si la pile n'est pas chargée en utilisant l'une des méthodes spécifiées, une fuite d'électrolyte, la génération de chaleur, l'amorçage ou la rupture peuvent être occasionnés.

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.

Lorsque la pile est détériorée, la remplacer par une nouvelle pile. L'utilisation continue d'une pile endommagée peut occasionner une génération de chaleur, l'amorçage ou la rupture de la pile.

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.

Ne pas utiliser avec un autre produit La batterie est rechargeable et a été conçue pour un produit spécifique. Si elle est utilisée sur un produit différent de celui pour lequel elle a été conçue, des pertes d'électrolytes et une production de chaleur sont possibles, elle risque également de prendre feu ou de casser.

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

Ne pas utiliser ce produit avec une batterie autre que celle spécifiée

Discontinue using device immediately if you notice the battery is swelling or looks puffy or misshapen. Do not attempt to charge or use the device. Do not handle a damaged or leaking battery. Do not let leaking battery fluid come into contact with your eyes, skin or clothing.

Si vous remarquez une pile gonflée, élargie ou anormale, cesser l'utilisation de l'appareil immédiatement. N'essayez pas de recharger l'appareil ou de l'utiliser. Ne pas manipuler une pile qui fuit ou qui est endommagée. Ne laissez pas de liquide qui fuit entrer en contact avec vos yeux, votre peau ou vos vêtements.



General Product Safety **Sécurité générale des produits**

This product should not be used near water such as bathtubs, sinks, swimming pools, wet basement, etc.

Ce produit ne doit pas être utilisé près de l'eau comme les baignoires, les évier, les piscines, les sous-sols humides, 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.

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).

Ne pas placer le produit près d'une source de chaleur comme des radiateurs, les arrivées d'air chaud, poêles 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.

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.

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.

Utiliser uniquement les accessoires spécifiés par le fabricant.

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.

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 charriot, 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.

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.

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 defect or inactive. If it still can't solve the problems please contact your dealer or agent.

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.
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.
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.
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.
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.
Utiliser un chiffon doux humidifié avec de l'eau ou un détergeant 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.

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 the display. Using sharp or metallic object may cause scratches and damage the display, thereby causing errors.

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 the display. The touchscreen surface has a special protective coating that prevents dirt from sticking to it. Not using a soft cloth may cause damage to the special protective coating on the touchscreen surface. To clean off hard to remove dirt, blow some steam on the particular area and gently wipe away using a soft cloth.
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 the display. Avoid placing objects on top of the display as this may cause the glass to break.
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.

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

FCC Statement



This device complies with part FCC Part 2. 1092 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 FCC Part 2. 1092. 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 him own expense.

CE Notice (European Union)

This equipment is in conformity with the requirement of the following EU legislations and harmonized standards. Product also complies with the Council direct.



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: 2012/AC:2013
- EN61000-3-2:2014
- EN61000-3-3:2013

Low Voltage Directive (2014/35/EU)

- EN 60950-1:2006/A11:2009/A1:2010/A12:2011/ A2:2013

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

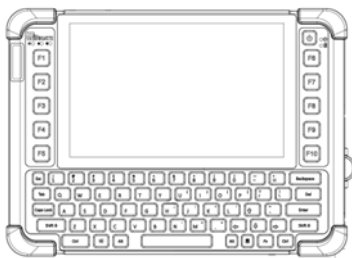
This chapter tells you step by step how to get the Tablet Computer up and running. You will find instructions for the following procedures:

- Unpacking
- Description of Parts
- First Time Operations
- Powering On/Off

2.1 Unpacking

Thank you for purchasing the M101EKB Rugged Windows Tablet Computer. The rugged design allows you to use it in harsh outdoor environments.

Check and identify the supplied accessories:



• **Tablet Computer**



• **Quick Start Guide**



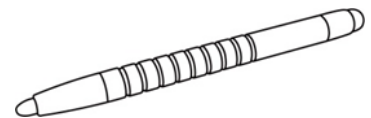
• **Standard Battery**



• **Power Adapter**



• **Power Cord and Plugs**



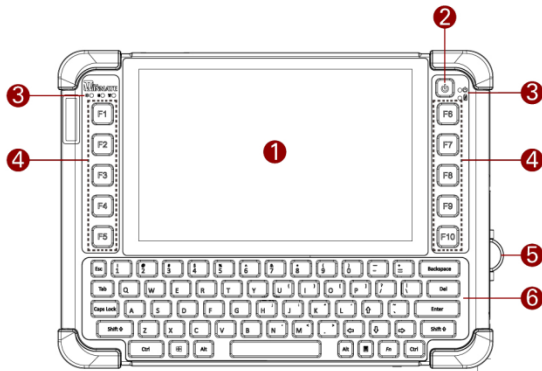
• **Stylus**

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

- | | |
|-------------------------------------|-----------------------------|
| • Desk Dock | • Shoulder Strap |
| • Vehicle Dock (without VGA output) | • Carry Bag |
| • Vehicle Cradle | • Micro HDMI Cable |
| • Vehicle Charger | • USB-C to Ethernet Adapter |
| • Battery Charger | • USB-C to RS232 Adapter |
| • Hand Strap | • USB-C to USB-A Hub |

2.2 Description of Parts

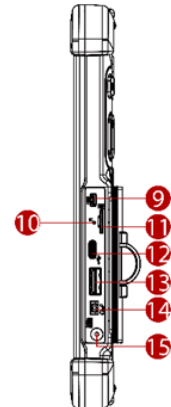
Front:



Left:



Right:



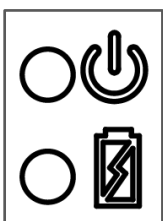
No	Item	Description
1	Touch Screen	Displays and acts as one of the inputs for the computer.
2	Power Button	Power on/off computer.
3	LED Indicators:	Shows the current status of the computer.
4	Function Buttons	Programmable function keys configured by Winset utility.
5	I/O Cover	Protects I/O ports.
6	QWERTY Keypad	Input characters using the QWERTY keypad.

Front LED Indicators Details:

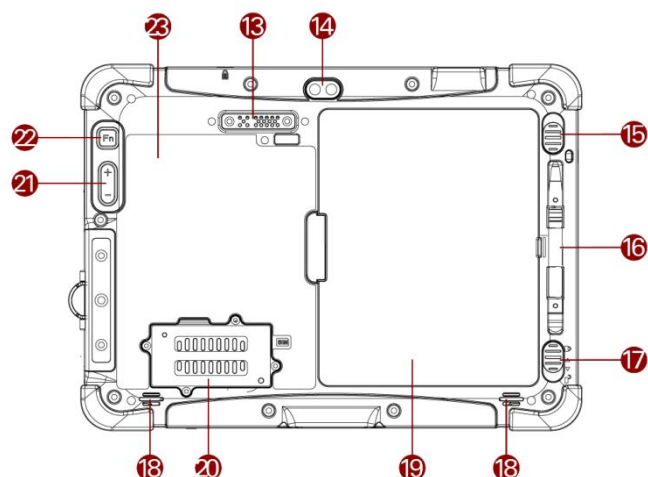
Left side



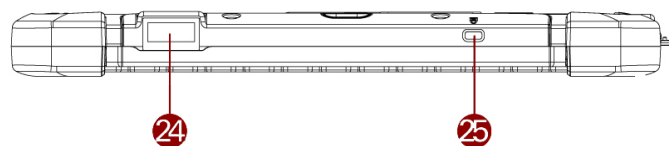
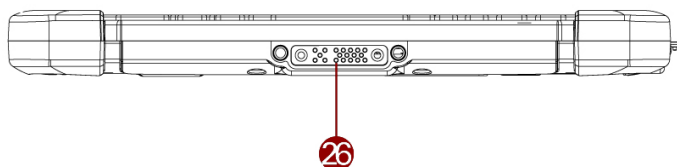
Right side



No	Item	Description
9	Micro HDMI	HDMI output to external display.
10	Clear CMOS	Hardware reset button.
11	MicroSD Card Reader	Memory card reader port for MicroSD Card
12	USB 3.0 Type-C support PD 20V In	A high-speed USB port connects to USB devices, such as a USB flash drive, mouse, keyboard, printer, etc. Note: The USB Type-C connector follows USB 3.0 standards, not supporting Alternate Mode (ALT)
13	USB 3.0 Type A	USB 3.0 port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc.
14	Mic In/Line Out	Headset or headphone can be connected (Mic is only supported with 3.5mm 4-pin headset)
15	Power Jack	DC power input jack.

Rear:

No	Item	Description
13	Expansion Port	Provide optional connectivity to custom modules for special application (USB2.0 x 1, RS232 x 1).
14	Rear Camera	5MP Autofocus Camera. Captures photos and videos.
15	Battery Release Slider	Spring-loaded slider that latches the battery in.
16	Touch Pen Slot	Pen holder slot to store touch pen.
17	Battery Lock Latch	Latch to lock the battery in place once battery is inserted. Not spring-loaded.
18	Speakers	Emit sounds.
19	Battery	7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P). 7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P, optional).
20	LTE Module / SIM card slot	Service window to insert Micro SIM card. Also provide access to LTE Module.
21	Volume Buttons	Volume Control. (+) Raise volume, (-) Lower volume.
22	Fn2 Button	Toggles Barcode Scanner
23	Optional HF RFID Reader	Scans HF RFID tags.

Top:**Bottom:**

No	Item	Description
24	Optional Barcode Reader	Barcode Scanner for reading of 1D/2D barcode.
25	Kensington Lock Port	Provides lock access for Kensington Lock.
26	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna

2.3 Hot Keys 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:






In POST (before Windows boots up):

Buttons	Keystroke
F7	Enters BIOS Setup Screen.
Fn2	ESC
Volume Up (+)	Up
Volume Down (-)	Down

In Windows:

Buttons	Keystroke
Fn + F1	Opens Winset application
Fn + F4	RF Power (Wifi/BT/WWAN/GPS Ant.)
Fn + F5	Camera(Call Winset Cam)
Fn + F7	Zoom +
Fn + F8	Zoom -
Fn + F10	Increase size of on-screen keyboard
Volume Up (+)	Brightness or Volume (Default Brightness)
Volume Down (-)	Brightness or Volume (Default Brightness)
Fn2	Default: Barcode Scan (Configurable)

2.4 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%
Light Sensor		Light sensor automatically adjusts the panel brightness based on the light settings.
Disk Activity Indicator		Green - Disk Activity No light - Disk Idling
RF Communications		Green - WLAN/BT/WWAN/GPS ON No light - WLAN/BT/WWAN/GPS are all OFF

2.5 First-Time Operation

2.5.1 Installing SIM card (For WWAN Equipped Devices) (Optional)

To install the SIM card:

Tools Needed:

Service Windows

Screw: M2x5, 4 pc

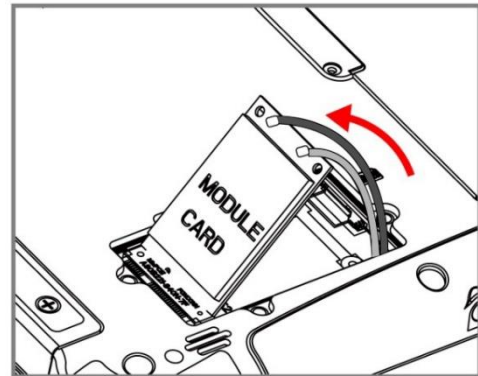
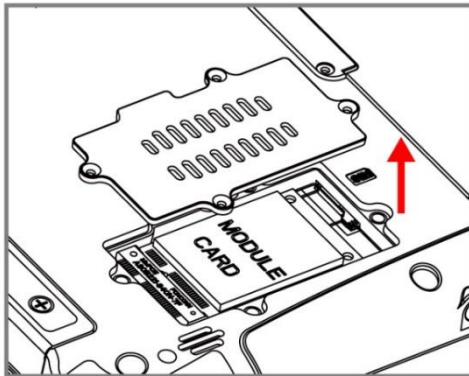
Screwdriver: Philips Type, Size #0, for M2 screws, torque: 2.0 ± 0.5 kgf.cm

WWAN Module

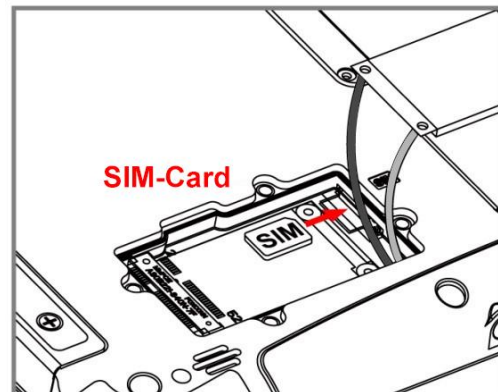
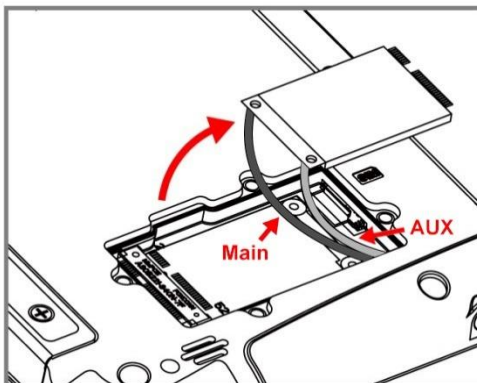
Screw: M2x3.5, 1 pc

Screwdriver: Philips Type, Size #0, for M2 screws, torque: 2.0 ± 0.5 kgf.cm

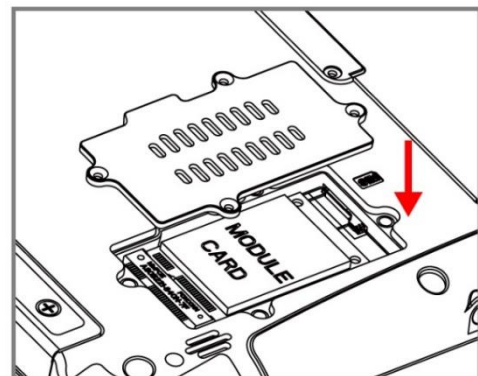
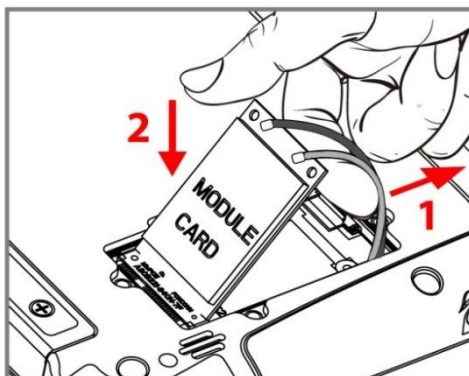
- ❶ Remove four screws and remove the service window.
- ❷ Remove the one screw that secures the WWAN module. Carefully lift the module. **Do not disconnect cables.**



- ❸ Carefully flip and move the WWAN module and to the right. **Do not disconnect cables!**
- ❹ Insert SIM-Card all the way in. **Chip/ contact facing down.**



- ❺ Use your hand to carefully pull the cable outside the module card. Re-insert the WWAN module and fasten one screw. Accurately route the cables. **Do not bend, pinch, or squeeze the cable.**
- ❻ Re-insert the service window and fasten with the four screws.



Caution When re-inserting WWAN module, please pay attention to cable routing. Make sure the cable module connects properly and does not get squeezed.

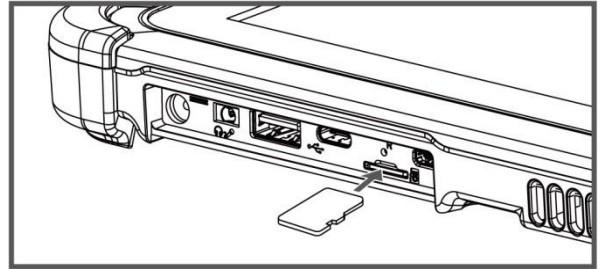
Attention Notez l'acheminement du câble lorsque vous réinstallez le module WWAN. Assurez - vous que les modules de câble sont correctement connectés et qu'ils ne sont pas pincés.

2.5.2 Installing a Micro SD Card

Your tablet supports up to 128GB additional storage with an optional microSD card slot.

To install Micro SD Card:

1. Open I/O protective cover by pulling out the latch.
2. Insert the microSD card into a slot with contacts facing down.
3. Press the card in to ensure that it is seated properly.
4. Close I/O protective cover.



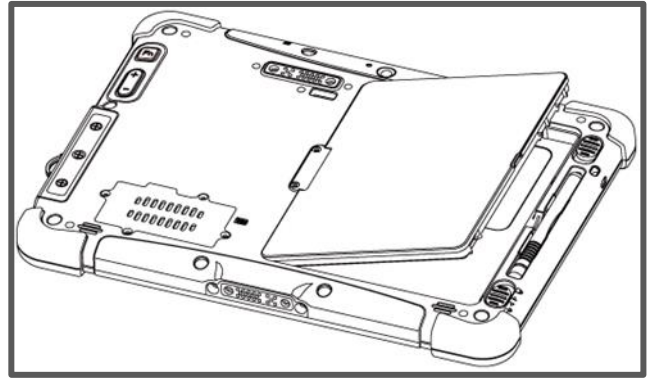
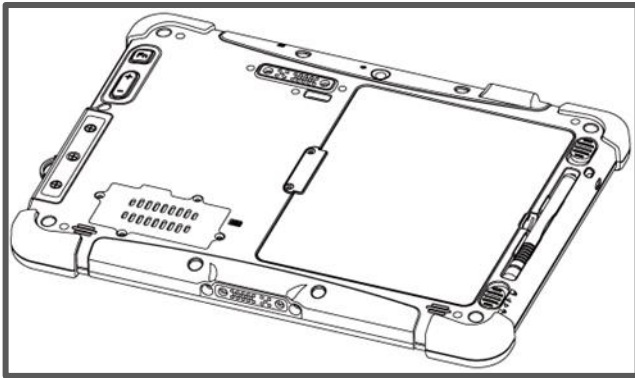
To remove Micro SD Card:

1. Open I/O protective cover by pulling out the latch.
2. Push and release the microSD card to unlock it.
3. Pull out the microSD card.

2.5.3 Installing Battery

To install the 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. Battery will be flat against the housing once fully inserted.



To remove the battery pack:

1. Shut down the tablet (or put 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 battery compartment.

2.5.4 Charging Your Tablet

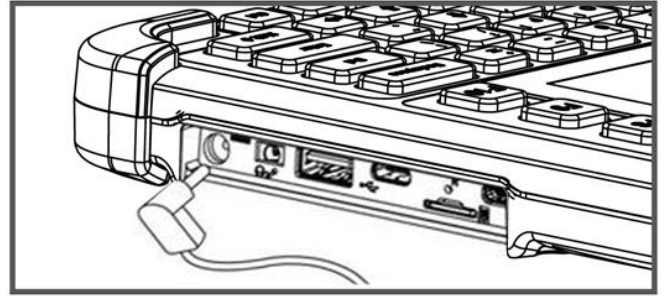
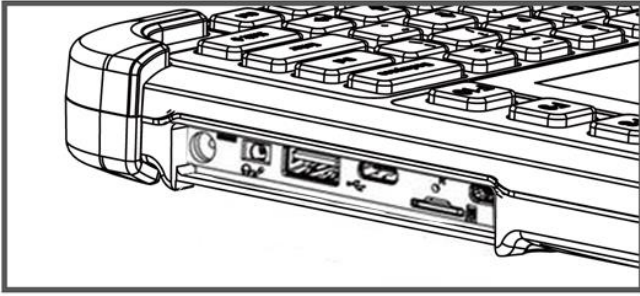
The Tablet operates either on external AC power or internal battery power. It is recommended to use AC power when you start up the Tablet for the first time.



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

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 battery is charging.

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

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

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

2.5.5 Starting the Tablet



Important: 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 **F6** button on the front bezel to initiate 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

This chapter details how to setup the Windows that may be installed on the tablet for the first time.

3.1 OS Introduction

The M101EKB Tablet Computer operates on Windows 10 IoT Enterprise operating system.



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

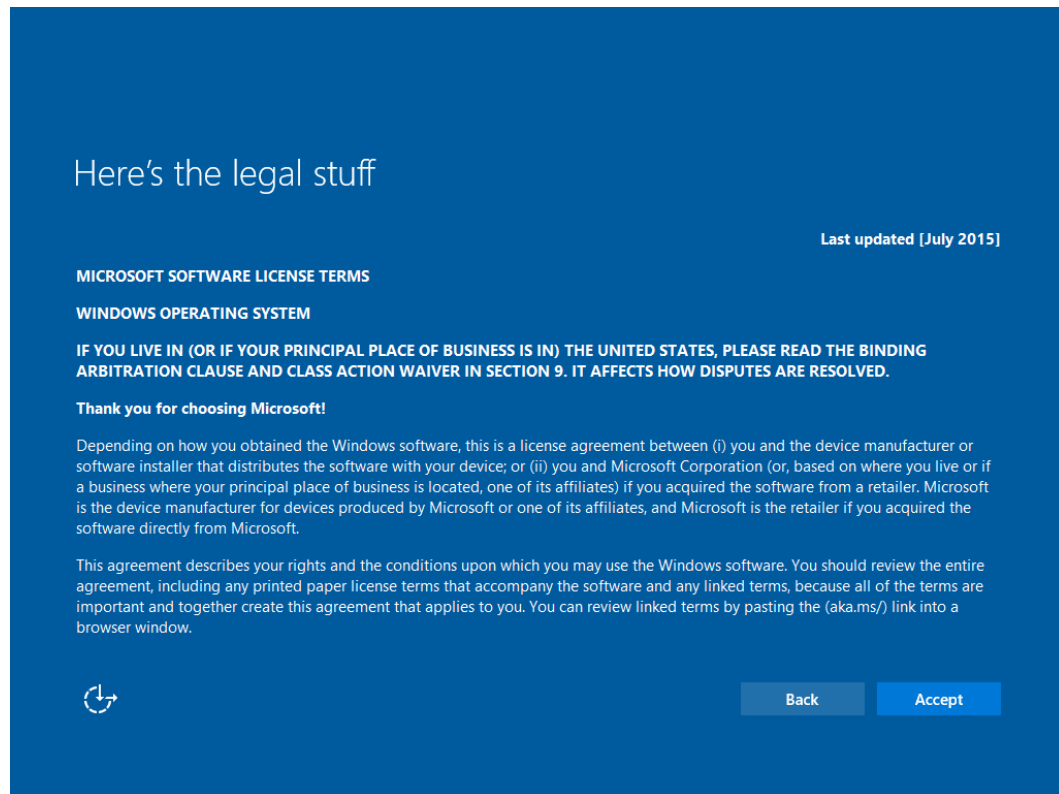
- **Public network:** Select this location if you do not recognize all the computers on the network. (For example, you are in a coffee shop or airport, or you have mobile broadband.) This is a public network and is *not* trusted. Select the location where you will most often use the computer.

3.2 Setting up Windows 10 IoT Enterprise

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

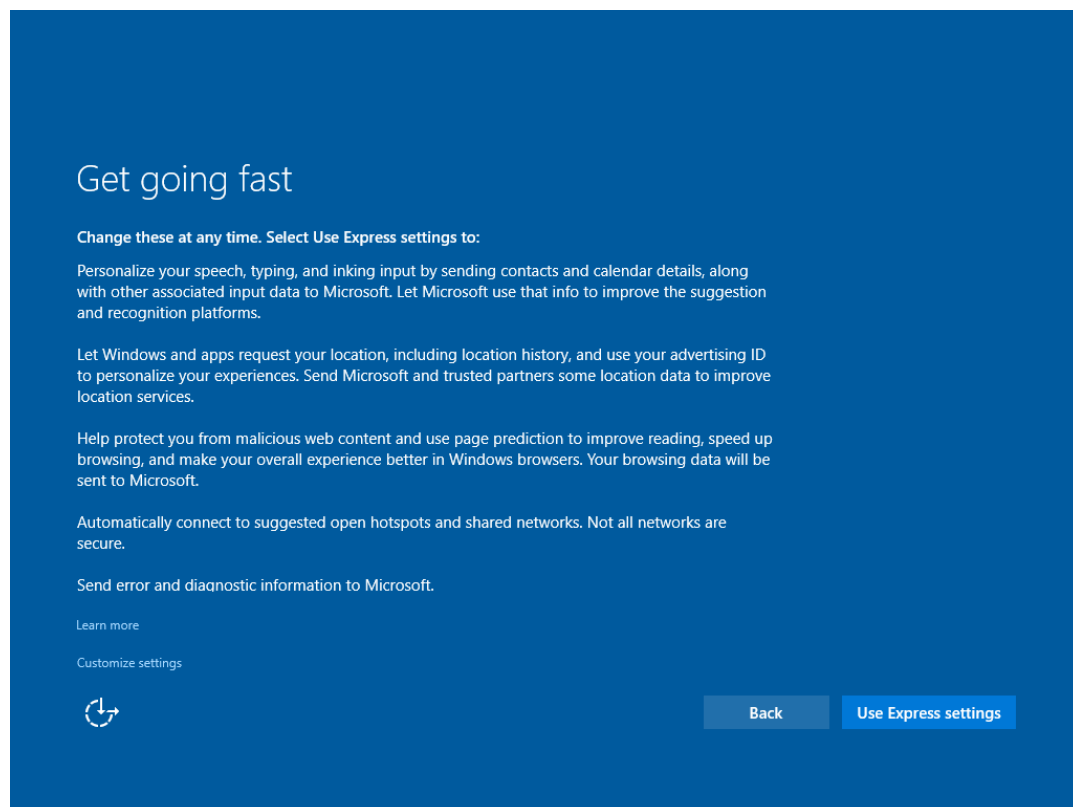
1. Press the power button to turn on the computer.
2. First, select your country/region, your preferred app language, your preferred keyboard layout, and your time zone, then tap Next.

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

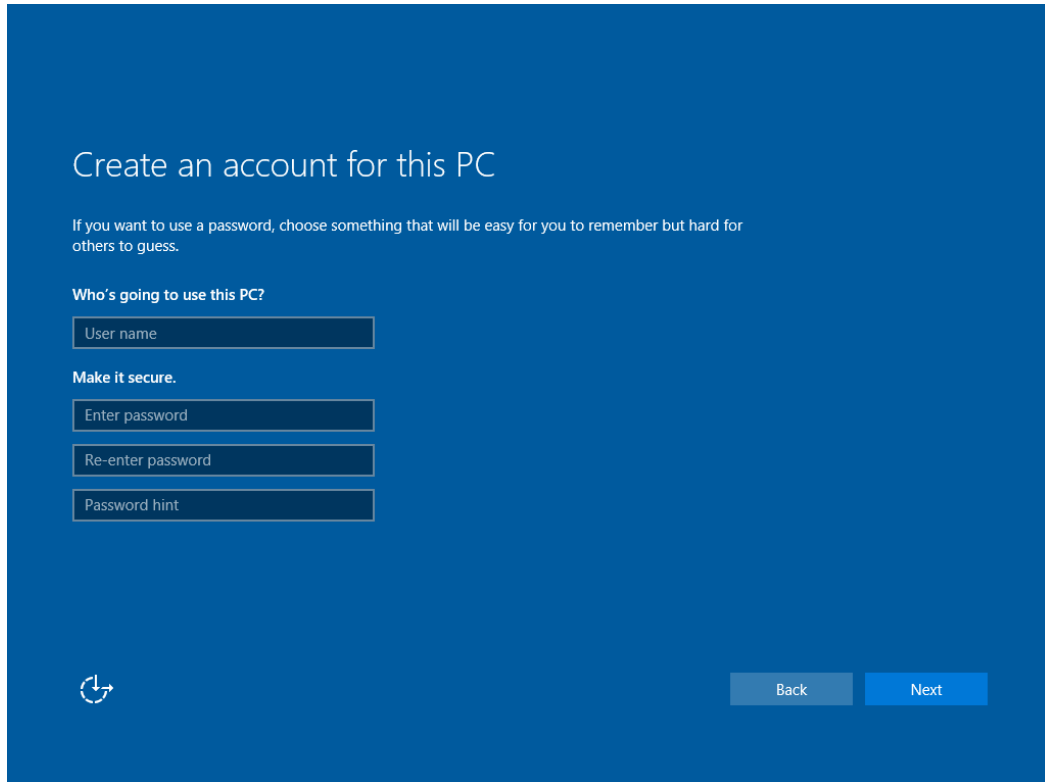


4. Windows will then try to connect to network. Tap **Skip this step** to continue without a wireless connection as you can then set up the network later.

5. On the **Get going fast** screen, click **Use Express settings** for the fastest setup. If you would like more information, tap **Learn more**, or if you would like to select your own options, click **Customize settings**.



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



The screenshot shows the Windows 'Create an account for this PC' setup screen. The background is a solid blue color. At the top, the title 'Create an account for this PC' is displayed in white. Below the title, a subtitle reads: 'If you want to use a password, choose something that will be easy for you to remember but hard for others to guess.' Underneath, the section 'Who's going to use this PC?' is followed by a text input field labeled 'User name'. Below this, the section 'Make it secure.' is followed by three stacked text input fields: 'Enter password', 'Re-enter password', and 'Password hint'. At the bottom left, there is a circular arrow icon. At the bottom right, there are two buttons: 'Back' and '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 Winset Utility

Winset® is a program to control the main functions of the M101EKB. In Winset®, users can check system information, control function button settings, and configure blanking function, scanner wedge and settings.

Long-press **Fn**  + **F1** function key to open Winset®. You can open Winset® by double-clicking on the Winset icon  on the desktop.

The Fn key     is located on the bottom right of the keypad


4.1.1 System Information

System information menu displays main information about this computer.

System Information	Function Buttons	Device Control	Exit	
PC Information				
BIOS Version		009		
EC Version		009		
Win-Set Version		4.1.4		
OS Version		95Z0000002C4_180601		
Serial Number		1W1860005105		
Model Name		M101BK for IEC		
Battery Health		Good		
<input checked="" type="checkbox"/> Check for update		Your software is up to date.		

4.1.2 WinSet Shortcut Setting




Long-press **Fn**  + **F1** function key to open Winset. In Function Buttons, submenu users can set up functions of the function keys F1~F10.

System Information	Function Buttons	Device Control	Exit	
--------------------	------------------	----------------	------	--

Short Press 1Sec. RESET

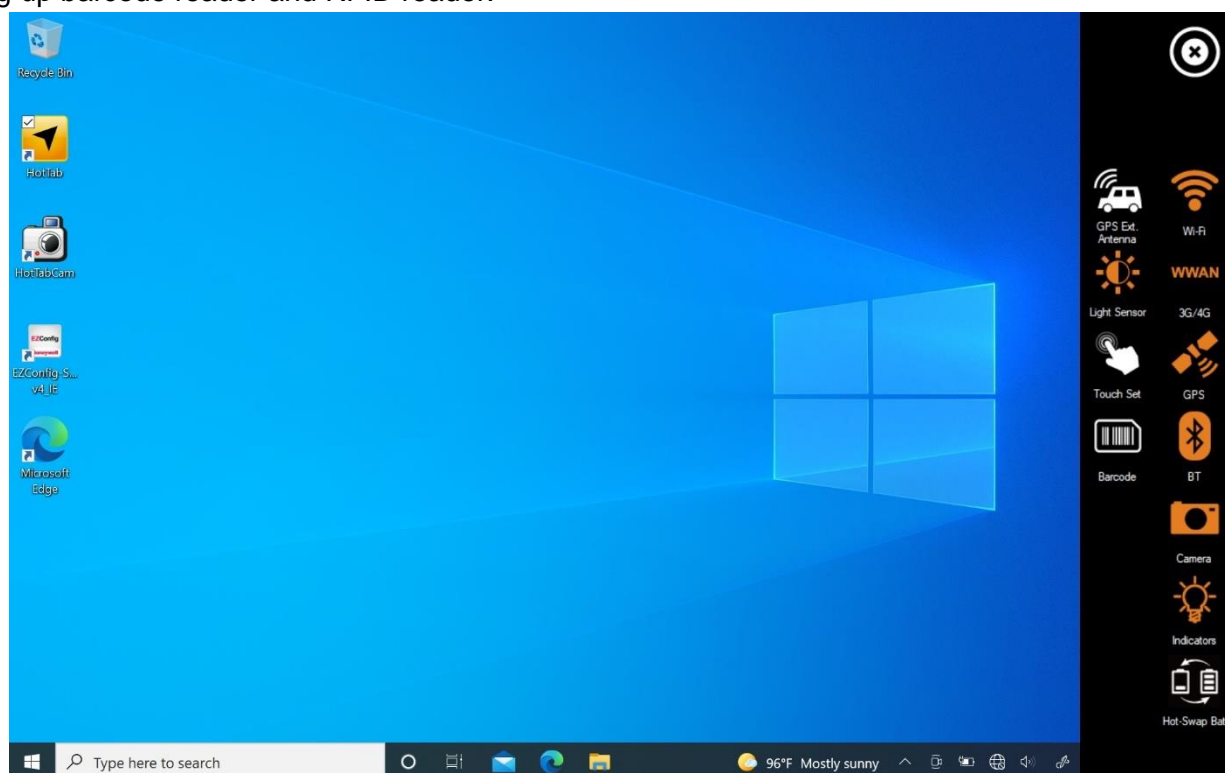
F1	Empty	NEW	DEL	F6	Empty	NEW	DEL
F2	Empty	NEW	DEL	F7	Empty	NEW	DEL
F3	Empty	NEW	DEL	F8	Empty	NEW	DEL
F4	Empty	NEW	DEL	F9	Empty	NEW	DEL
F5	Empty	NEW	DEL	F10	Empty	NEW	DEL
Fn1	Empty	NEW	DEL	Arrow Keys <input checked="" type="radio"/> Brightness <input type="radio"/> Volume			

Press the  button next to F1; user will see the window show up just like the below picture. Then choose a program to be opened by just pressing F1 next ti

The screenshot shows the 'Open' dialog box in Windows. The left sidebar shows 'This PC' selected. The main pane displays the contents of the 'Program Files' folder, with 'wmpplayer' highlighted. The 'File name' field at the bottom contains 'wmpplayer'. The 'Open' button is highlighted with a blue border.


4.2 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.



4.2.1 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.

4.2.2 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
	Orange	WWAN is enabled.
	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.

4.2.3 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
	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.

4.2.4 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
	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


- Choose the BT device to connect and follow the on-screen prompt to continue the pairing procedure and use the BT device.

4.2.5 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:

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


Item	Status Color	Description
 Indicators	Orange	LED indicator is enabled.
	White	LED indicator is disabled.


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

4.3 Using the Barcode Reader (Optional)

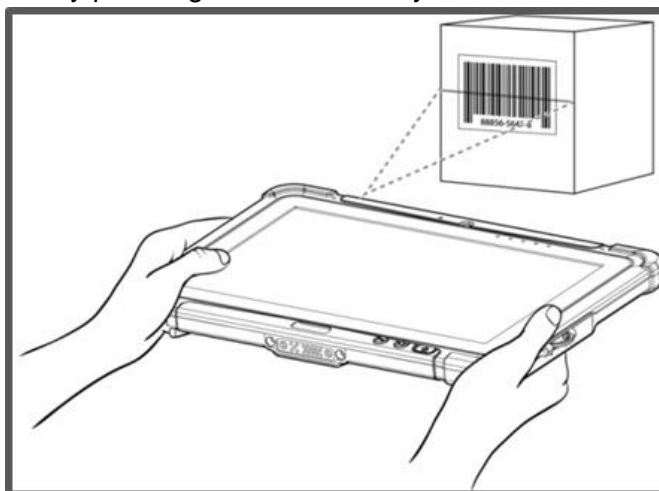
The 1D/2D Barcode Reader is optional for M101EK Tablet PC and is not re-workable by the end user. To use this feature, please make sure the tablet PC is built-in barcode reader before use, or contact our sales contact window for more details.

To enable the Barcode Reader:

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

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

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

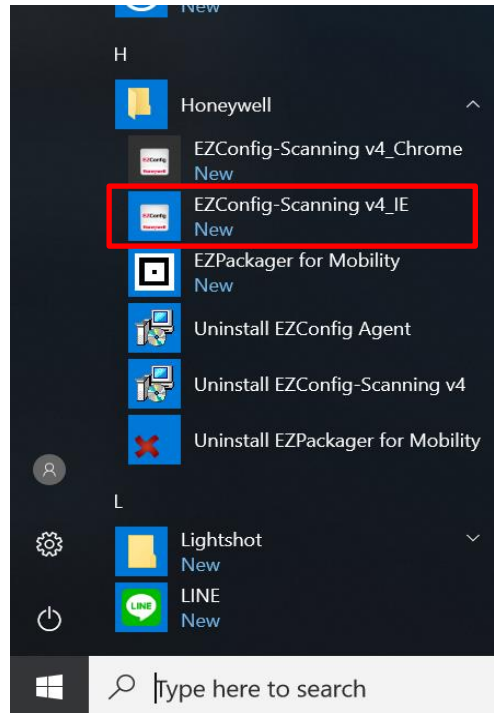


Tap **Disconnect** button to stop the connection with Barcode Reader.

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

4.3.1 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).



EZConfig-Scanning provides a wide range of programming functions that can be performed on a Honeywell scanning device connected to a computer. EZConfig-Scanning allows you to change programmed parameters, create and print programming bar codes and update device firmware.

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.

GETTING STARTED | NEW FEATURES | CHECK FOR EZConfig UPDATES | FAQ | HELP | TECHNICAL KNOWLEDGE BASE

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

4.3.2 Scanning mode Settings

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

Honeywell N660X Series Area Image Engine

1.SETTINGS 2.SYMBOLOGIES 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**

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

Scanning Mode Modifiers

Scanning Mode **Host Notify Mode** Default: 0

Presentation LED Behavior After Decode Manual Trigger
Presentation Mode
Snap And Ship Mode
Streaming Presentation(TM) Mode

Presentation Sensitivity 1 Range: 0-20 Default: 1

Presentation Mode Pre Aimer Delay Off ☒ On Default: 1

TRGMMF 0 ▼ Default: 0

Trigger Pre Aimer Delay 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
Manual Trigger	When in manual trigger mode, the scanner scans until a bar code is read or until the trigger is released. Two modes are available, Normal and Enhanced . 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.
Presentation Mode	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.
Streaming Presentation Mode	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, Normal and Enhanced . 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.
Host Notify Mode	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.
Snap and Ship Mode	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.

4.3.3 Setting the 1D/2D Barcode Scanner Symbolologies

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

Symbolologies Default Settings:

	Symbolologies	Default
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-Directional	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 Post	Disable
	China Post	Disable
	Australian Post	Disable
2D	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

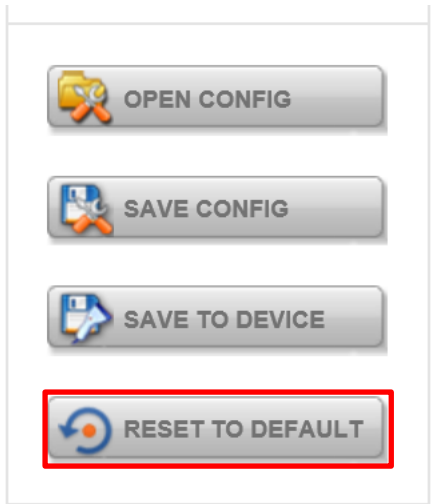
Changing the default setting of symbolologies or the advanced setting

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



Method (1). Click on the Symbolologies **2.SYMBOLOLOGIES** 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**

4.4.4 Adding a Prefix or Suffix

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

Honeywell N660X Series Area Image Engine

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

Prefix/Suffix | Data Formatter | Output Sequence Setting |

Prefix/Suffix [Quick Help](#)

Prefix Enable Off ☒ On Default: 1

Suffix Enable Off ☒ On Default: 1

Prefix Command Value

Suffix Command Value 990D

<input type="checkbox"/>	Delete	Symbology	Prefix	Suffix
<input type="checkbox"/>	↑ ↓	All Symbologies	<input type="text"/> Editor	[CR] Editor
<input type="checkbox"/>	↑ ↓	Australian Post	<input type="text"/> Editor	<input type="text"/> Editor

2. 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:

☐ Delete Symbology Prefix Suffix

☐ ↑ ↓ All Symbologies Editor [CR] Editor

Prefix Value

Insert Code ID = [0x80]

Finish

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

▲ Insert ASCII

Control Chars Printable Chars Extended ASCII

Control Characters (Hex: 0x00 to 0x1F) (Dec: 00 to 31)

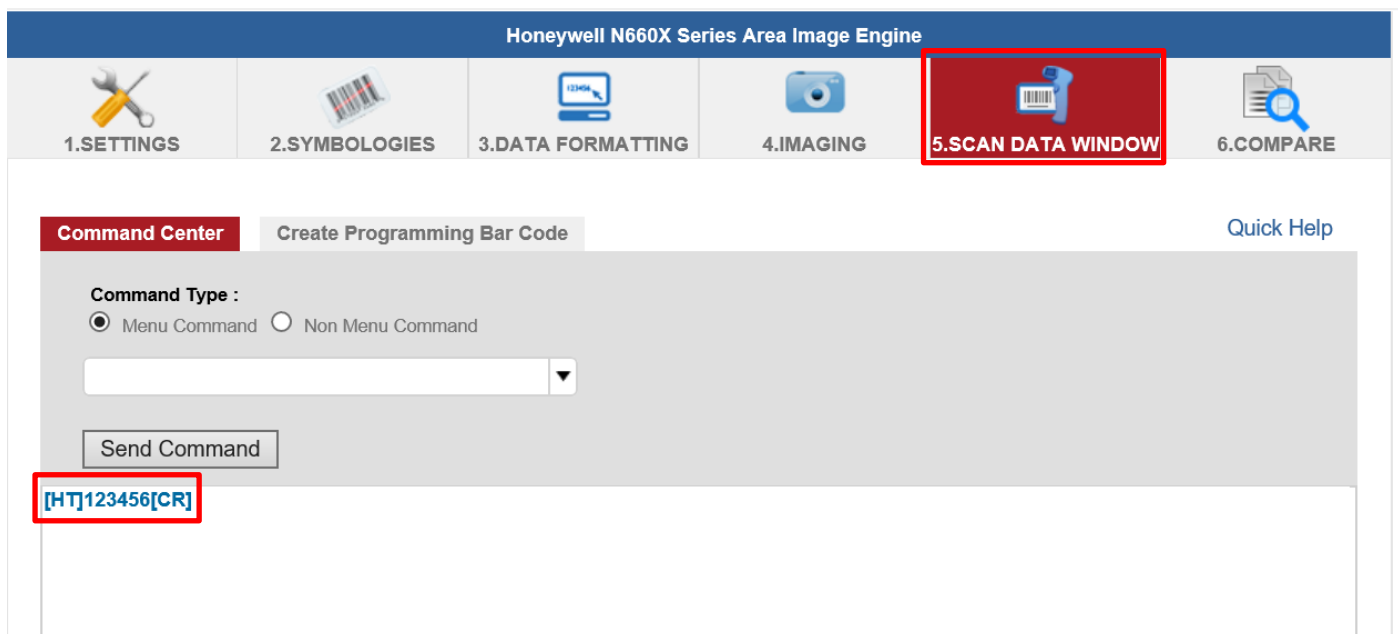
Hex	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL 00	SOH 01	STX 02	ETX 03	EOT 04	ENQ 05	ACK 06	BEL 07	BS 08	HT 09	LF 10	VT 11	FF 12	CR 13	SO 14	SI 15
1	DLE 16	DC1 17	DC2 18	DC3 19	DC4 20	NAK 21	SYN 22	ETB 23	CAN 24	EM 25	SUB 26	ESC 27	FS 28	GS 29	RS 30	US 31

▼ Insert Keypress

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

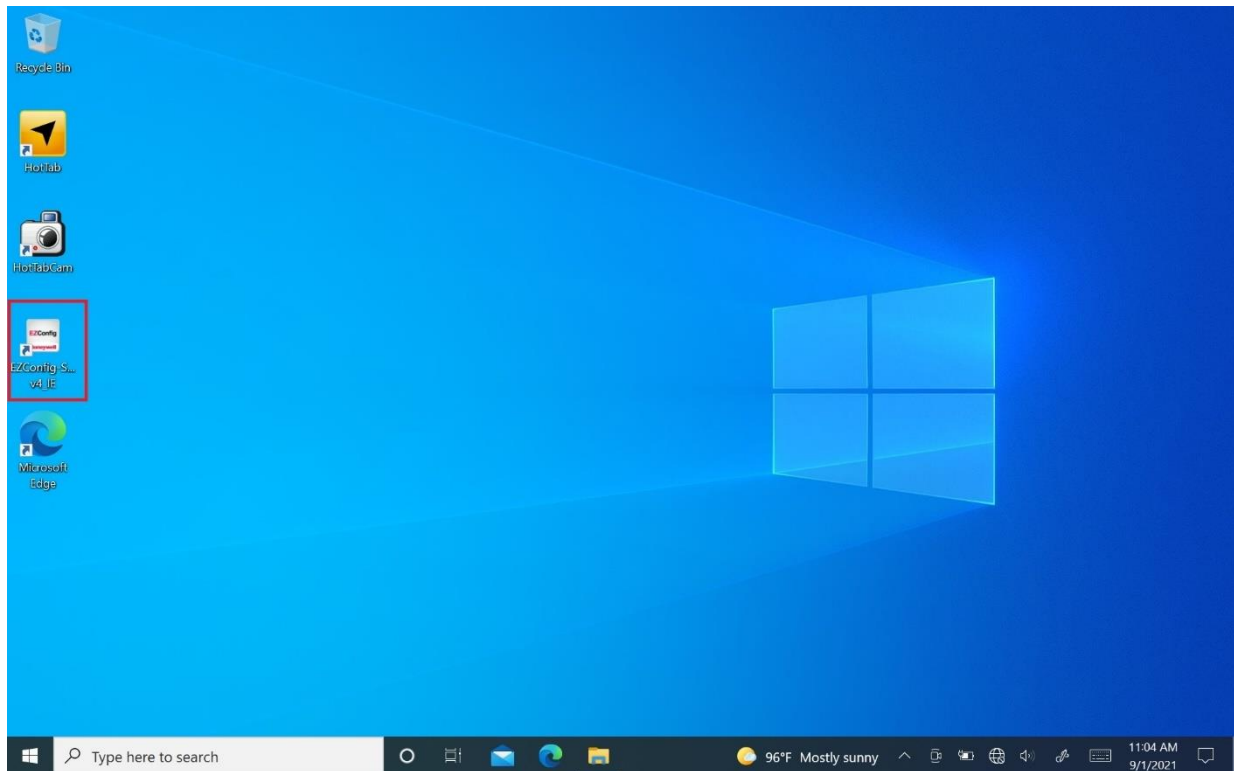


4. To check the functionality of Prefix/Suffix, please click on the **Scan Data Window** icon on the top. Then scan a barcode to verify if the Prefix/Suffix appears correctly.

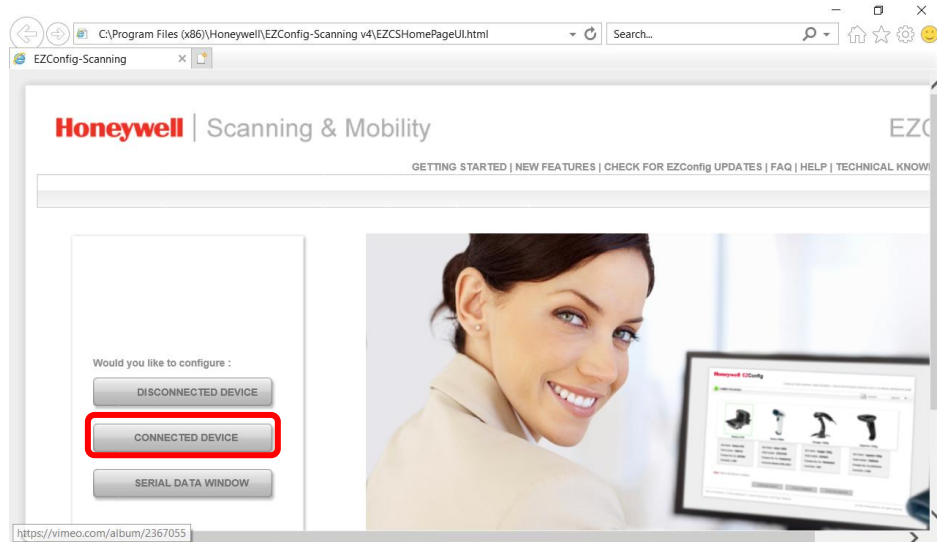


4.4.5 Adjusting the Barcode Reader LED Brightness

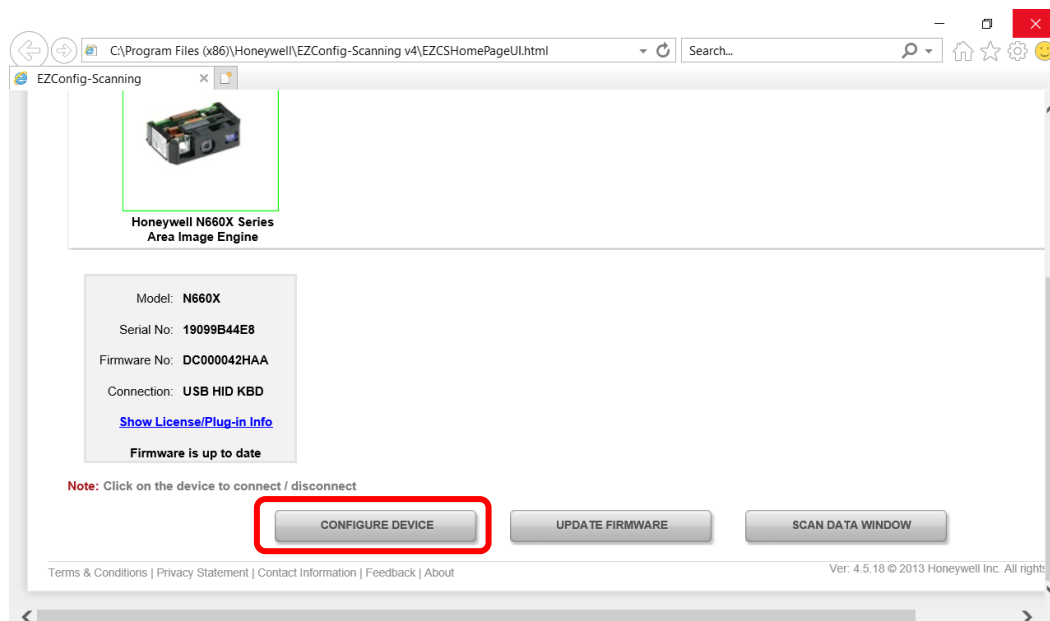
1. Open **EZConfig-Scanning V4_IE** Icon.



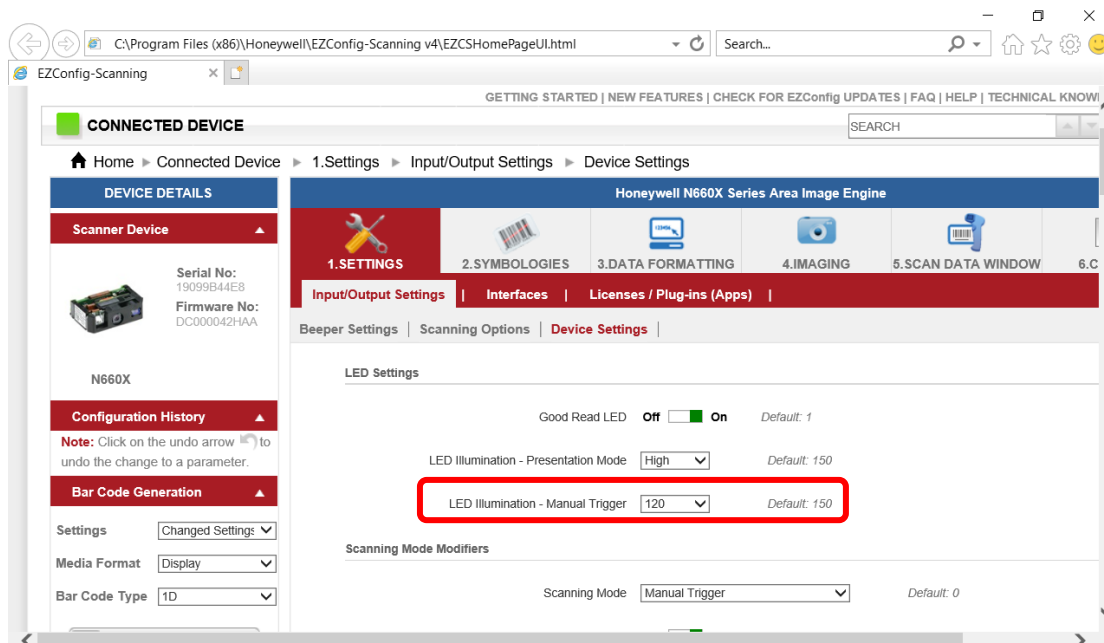
2. Open Connected Device



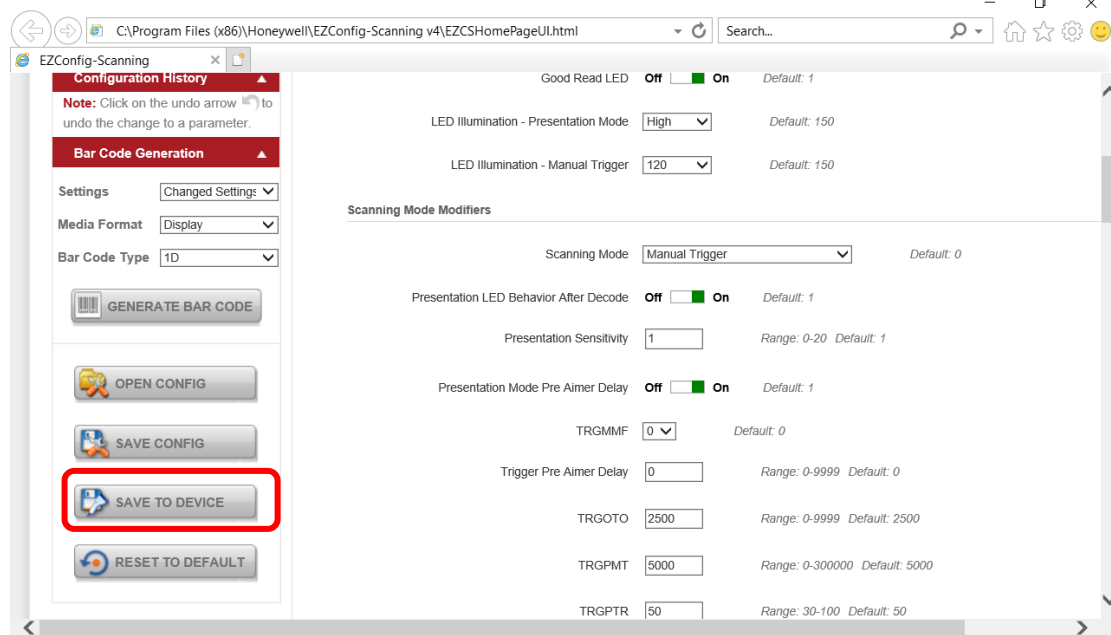
3. Open Connected Device



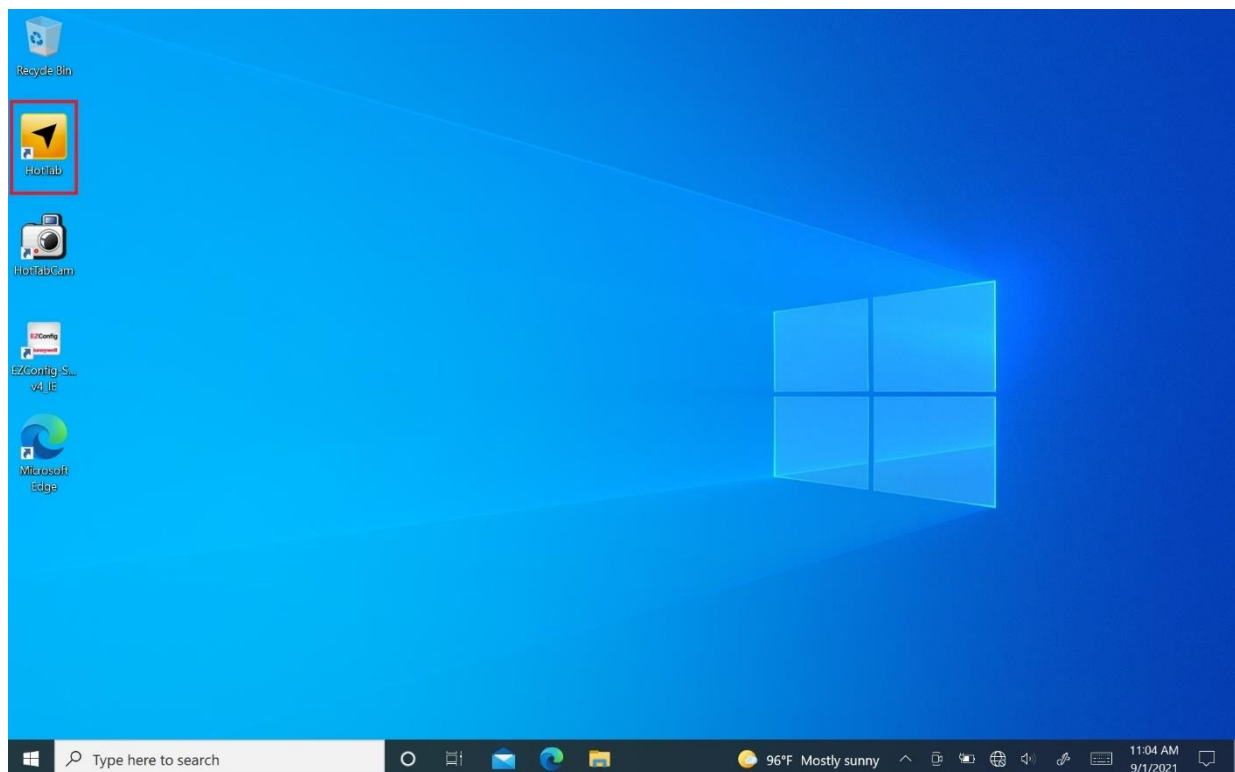
4. Open Settings → Device Settings → LED illumination - Manual Trigger Setting change 120



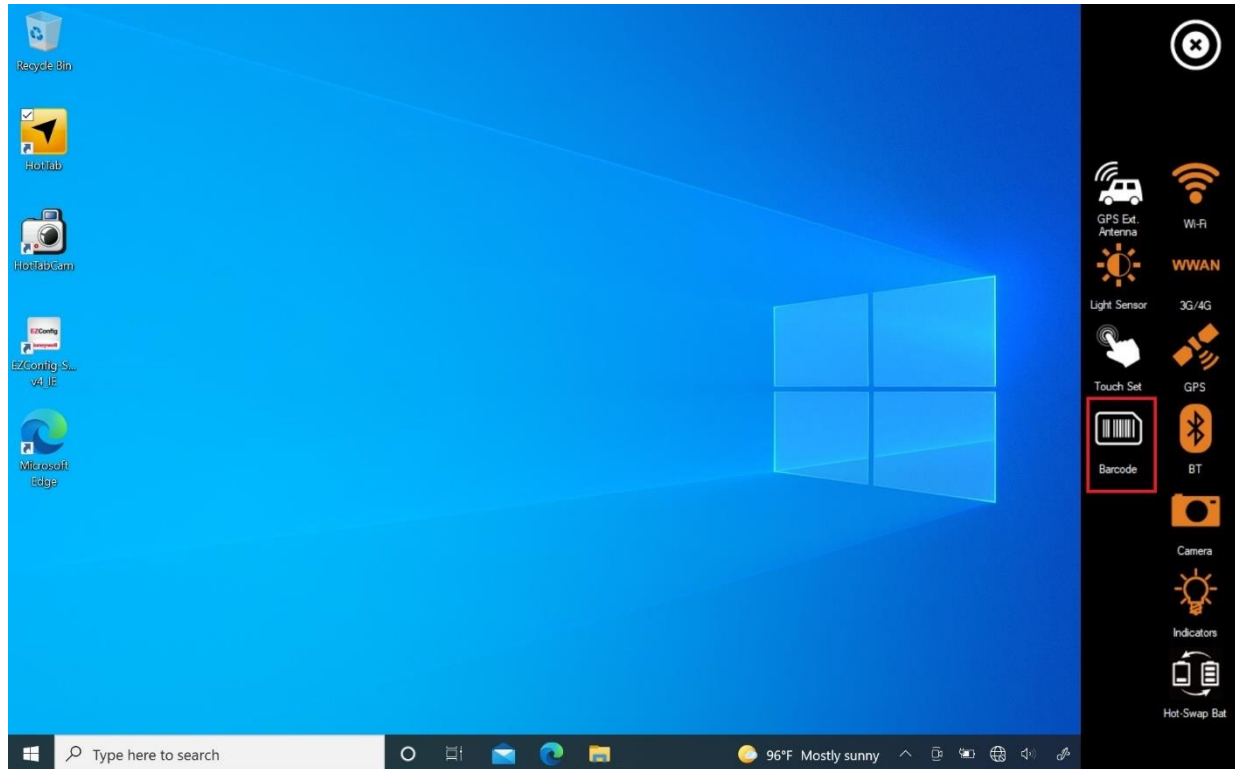
5. Save To Device



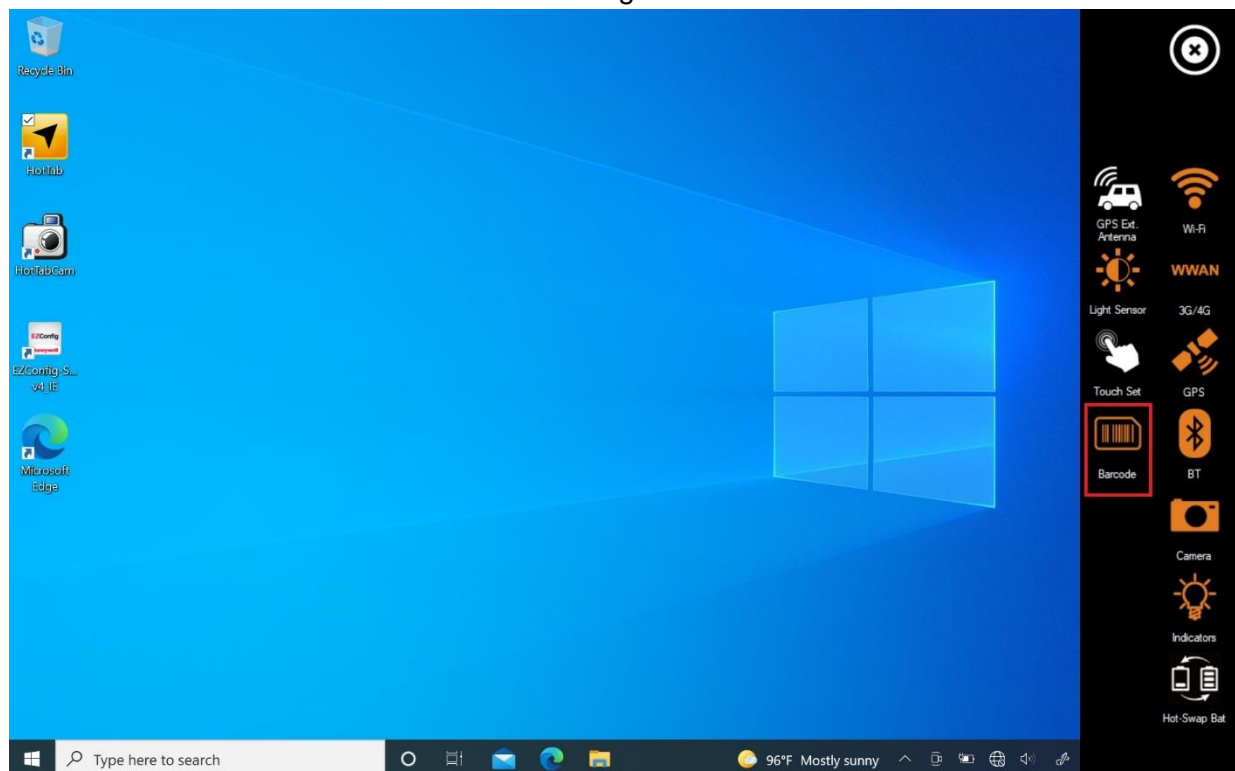
6. Open Hottab Utility Icon



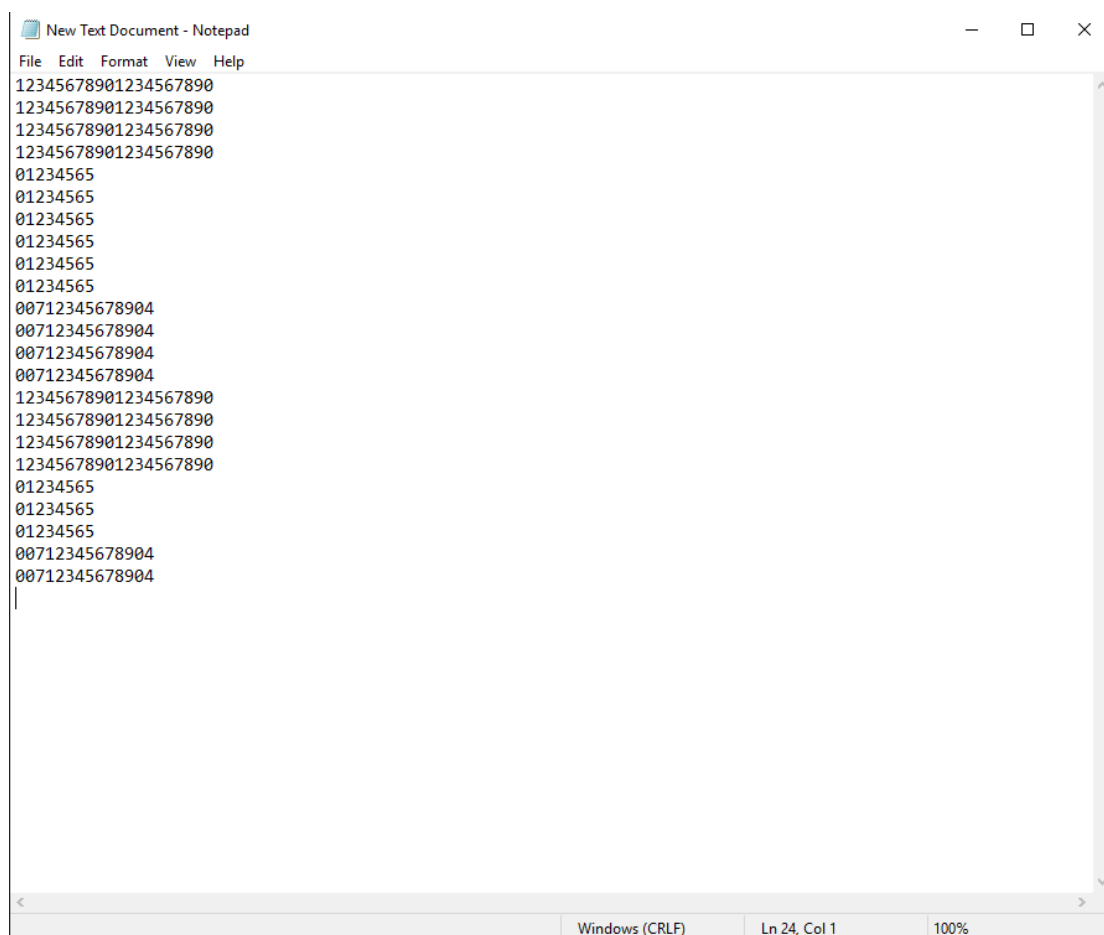
7. Open the HotTab, click the **Device ON/OFF**, and see the Barcode indicator. If it is white, click to turn it on.



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




9. Scanned Barcode





4.4 Using Camera

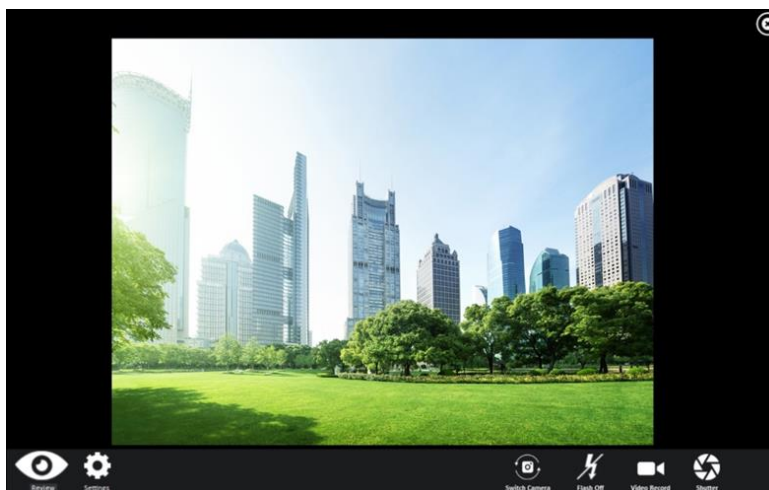
This Hottab menu option allows users take a picture or record a video. Before use, make sure the camera is powered on under the **Devices ON/OFF** menu with the following scenarios.

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.



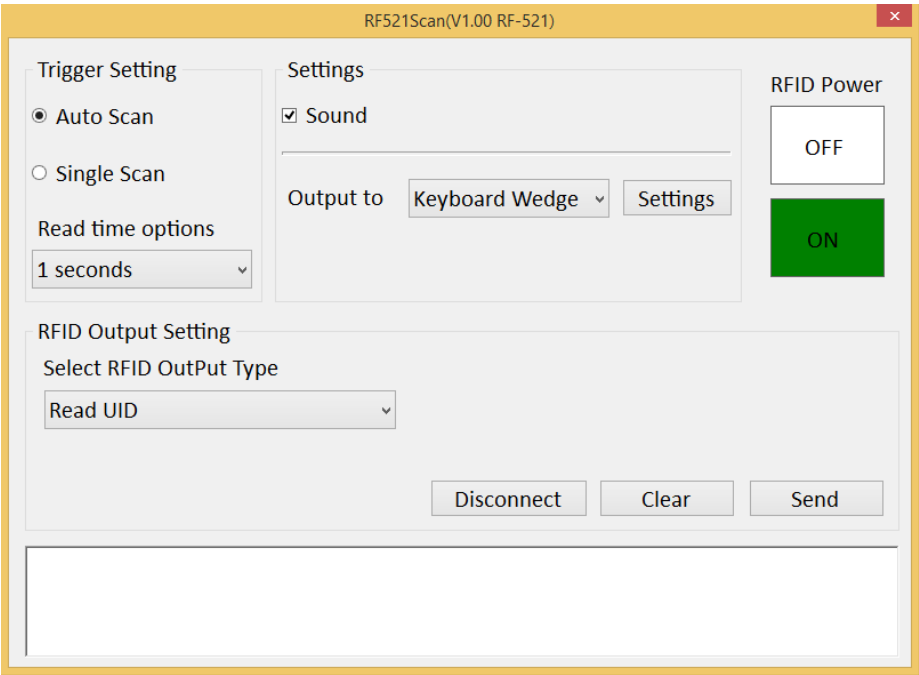
No	Item		Description
1	Review		Review
2	Settings		Opens Camera settings page. Available Settings: <ul style="list-style-type: none"> • Picture Save: modify/inspect saved location for pictures. • Video Save Folder: modify/inspect saved location for video recordings. • Picture Quality: Picture compression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

4.5 Using the HF RFID Reader


The HF RFID Reader is optional for M101EK 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:

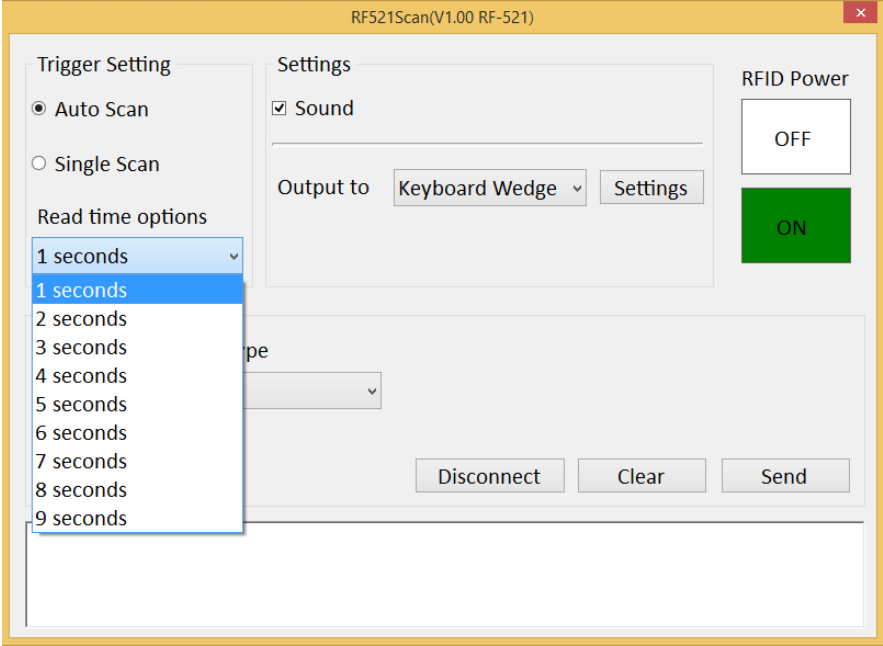
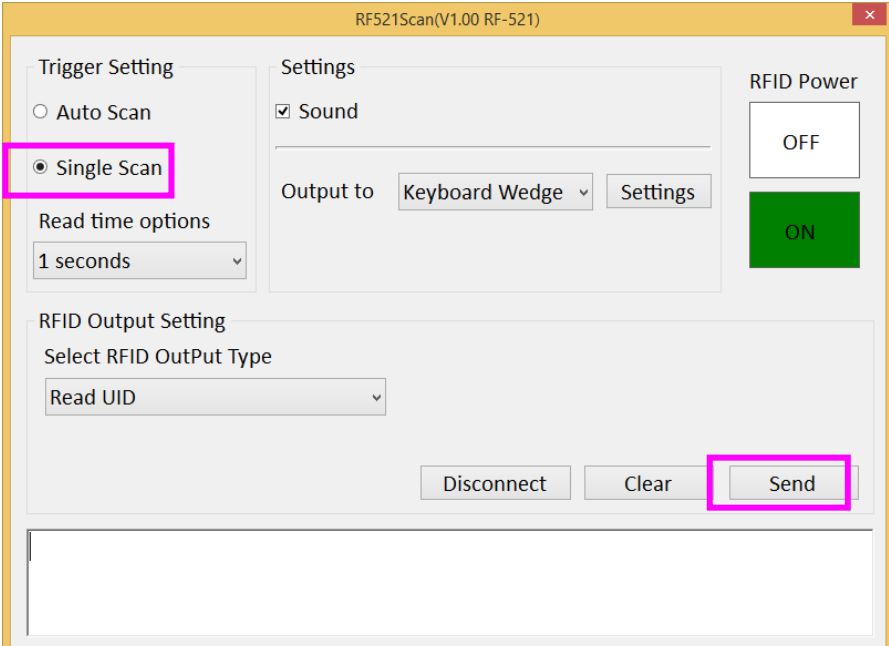
1. Open the Hottab utility by press the (Menu) Button located on the front panel OR launching the Hottab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Tap on **RFID**, and the setting utility will show up as below:



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
 RFID	Orange	HF RFID Reader is enabled.
	White	HF RFID Reader is disabled.

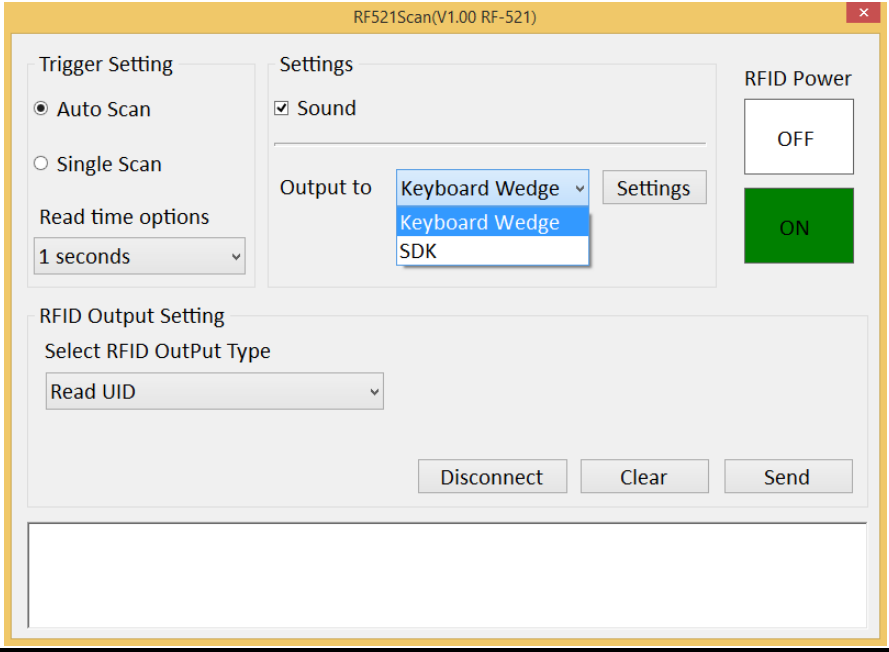
4.5.1 RFID Trigger Setting

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">1. When the RFID tag is detected from the RFID antenna, the data will be read automatically.2. 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. 
Single Scan	<p>User can also define the RFID Reader scanning as a Single Scan. Under this setting, the RFID Reader will be triggered only when the user clicks on Send.</p> 

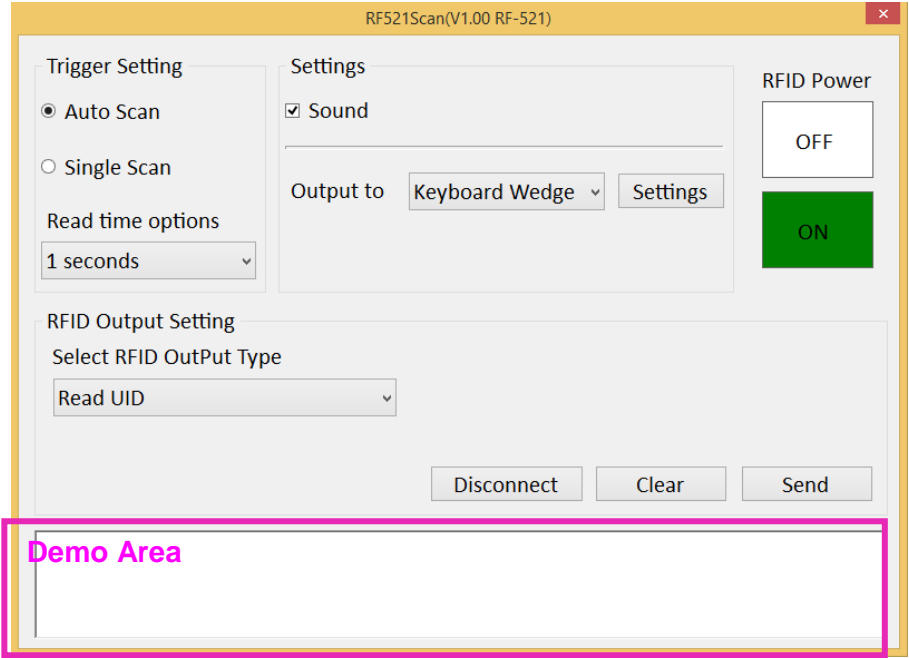
4.5.2 Settings

Item	Description
Sound	The Sound 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:
-----------	--



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.

Keyboard Wedge Configuration

Prefix ☐ Append Enter

Suffix ☐ Append TAB

Regex Filter Presets...

Replace

Regex Substitution ?


Replace With

Reset to default OK Cancel

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.
	<p>Regular Expression Presets</p> <p>All characters Use this rule</p> <p>Keep first <input type="text"/> characters Use this rule</p> <p>Keep last <input type="text"/> characters Use this rule</p> <p>Close</p>
Replace	User can define specific characters to be replaced with preferred characters automatically. When the characters defined in <u>Regex Substitution</u> is scanned, the data will be replaced with the one filled in <u>Replace with.</u>
Reset to default	User can remove all the setup and back to default mode.

Software Development Kit (SDK)

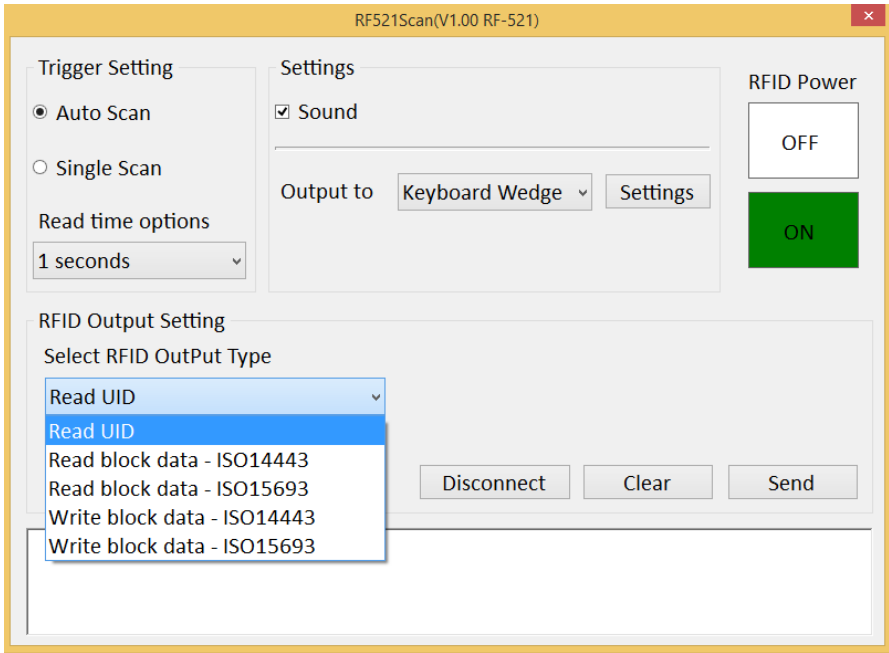
For users following SDK for software porting, the scanned data can also be output with the format needed.



NOTE:

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

4.5.3 RFID Output Setting

Item	Description
Select RFID Output Type	<div><p>The default setting for built-in HF RFID Reader is to Read UID. 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></div>
Disconnect	<div><p>User can tap on the Disconnect button to stop the connection with a built-in HF RFID reader.</p><p>*To recover the connection, please turn off the module from setting UI and then turn on the module again.</p></div>

4.6 Replacing Hot Swappable Battery

The tablet computer supports hot-swapping 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 the Winset application 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 the Winset application to check if the 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.



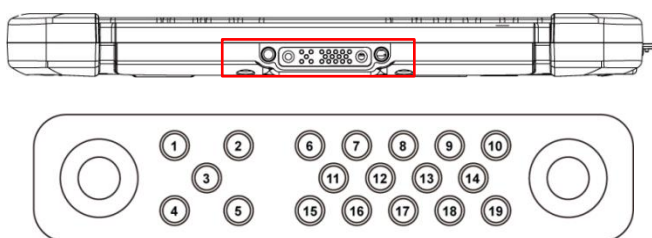
Caution/ Attention

To keep battery health and prevent possible issues from battery over-discharged, please charge the tablet built-in back-up battery once for every 2 months.
Pour préserver la santé de la batterie et éviter les problèmes de batterie déchargée, veuillez recharger la batterie de sauvegarde intégrée de la tablette une fois tous les 2 mois.

4.7 Docking Connector Pin Definition

M101EKB Tablet Computer supports one 19-pin docking connector at the bottom side. The pin definition is listed as the following table.

Bottom Side:



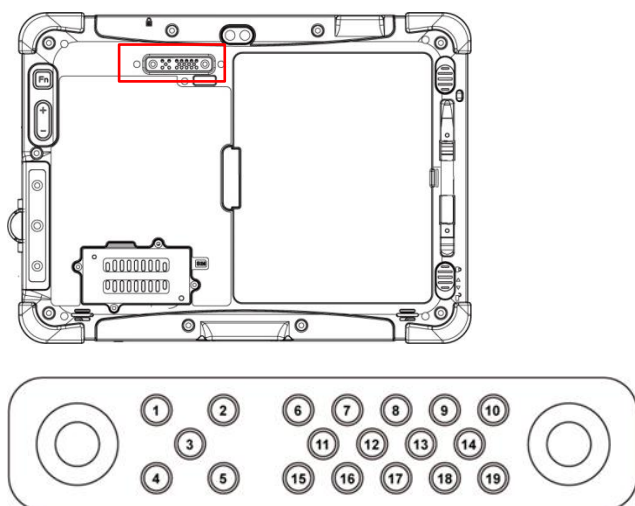
19 Pin Docking Connector

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		

4.8 Expansion Port Pin Definition

M101EKB Tablet Computer supports one optional 19-pin expansion port at the rear side. The pin definition is listed as the following table

Rear Side:



19 Pin Expansion Port

Pin No.	Description	Pin No.	Description
1	NC	11	RIB#
2	NC	12	RTSB#
3	NC	13	DTRB#
4	NC	14	RXDB
5	NC	15	DM4_R
6	CTSB#	16	DP4_R
7	DSRB#	17	VEXT
8	TXDB	18	GND
9	DCDB#	19	GND
10	GND		



Caution/ Attention

Do not open when the expansion port is not used.

Ne pas ouvrir lorsque le port d'extension n'est pas utilisé.

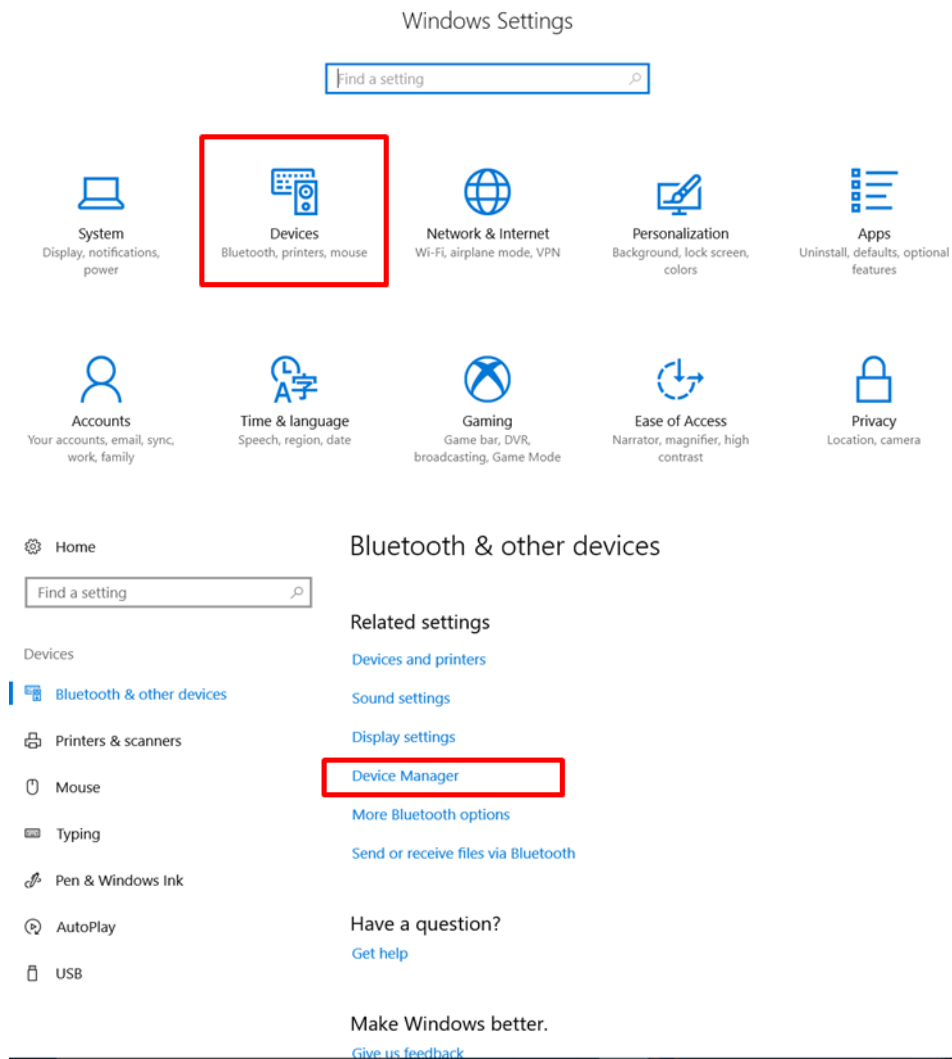
4.9 COM Port Definition

M101EKB tablet computer uses Winset utility for built-in peripherals control. All the COM port numbers have been defined in the OS image coming with the package.

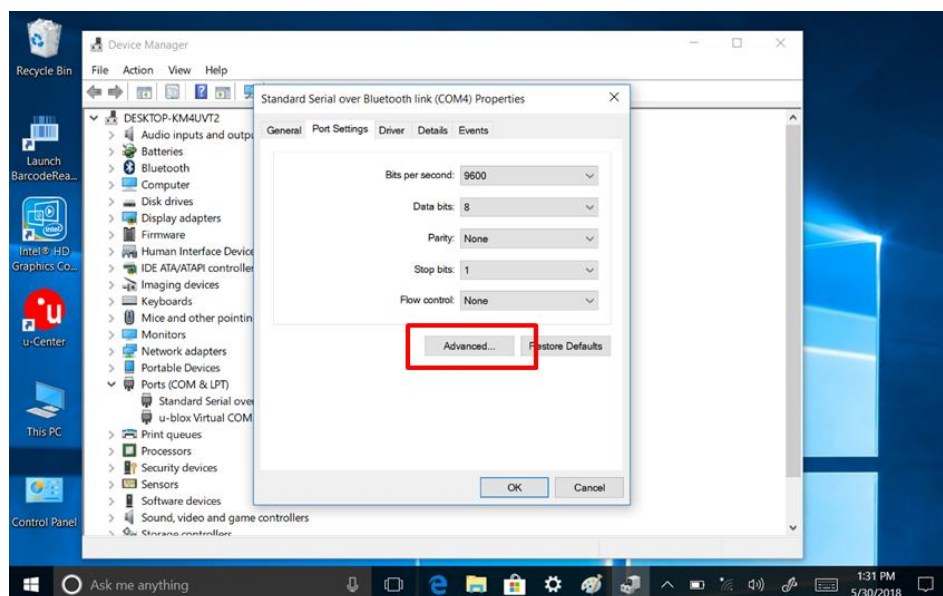
COM Port	Device
COM 1	RS232 at I/O
COM 2	RS232 of Expansion Port (Optional)
COM 3	HF RFID (Optional)
COM 4	Bluetooth Auto Pairing
COM 9	GPS
COM 11	RS232 at Docking (Optional)
COM 15	Barcode Reader (Optional)
COM 20	UHF RFID (Optional)

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

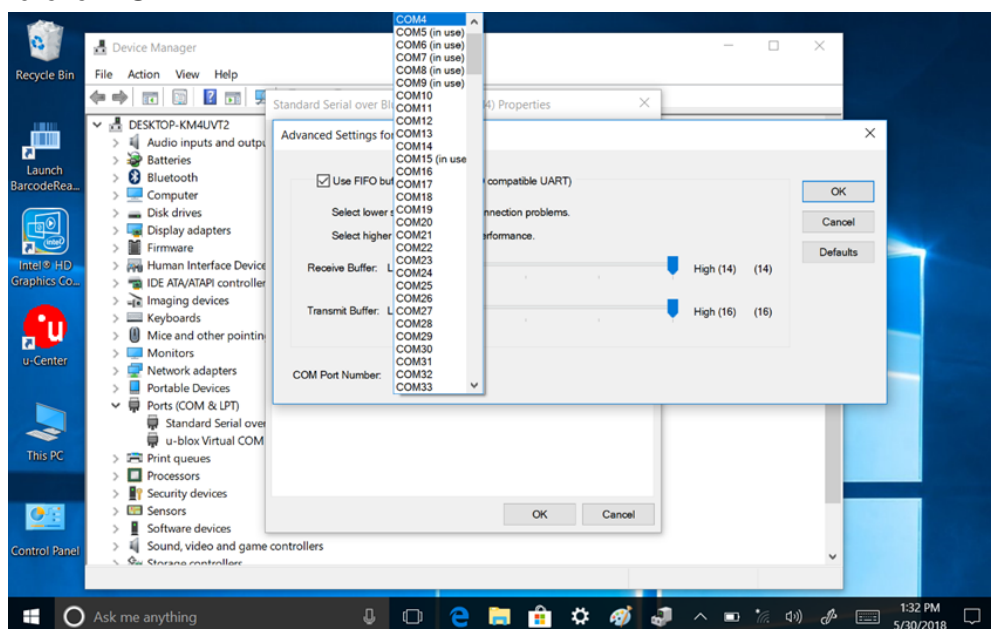
1. Go to **Windows Setting**→**Devices** →**Device Manager**, right click on the COM number need to be changed, and tap on "Properties" to open the setting page.



2. Tap on "Port Setting" tab and click on "Advanced" button.



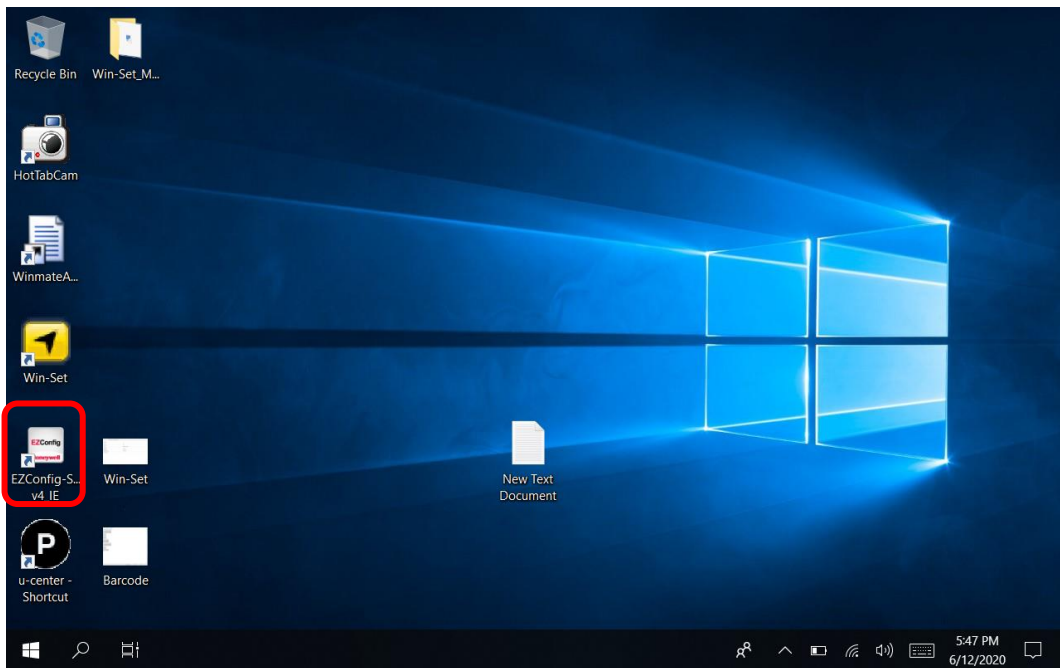
3. Tap on the dropdown list and choose the correct COM Port (refer to the COM Port Definition Table), and click "OK".



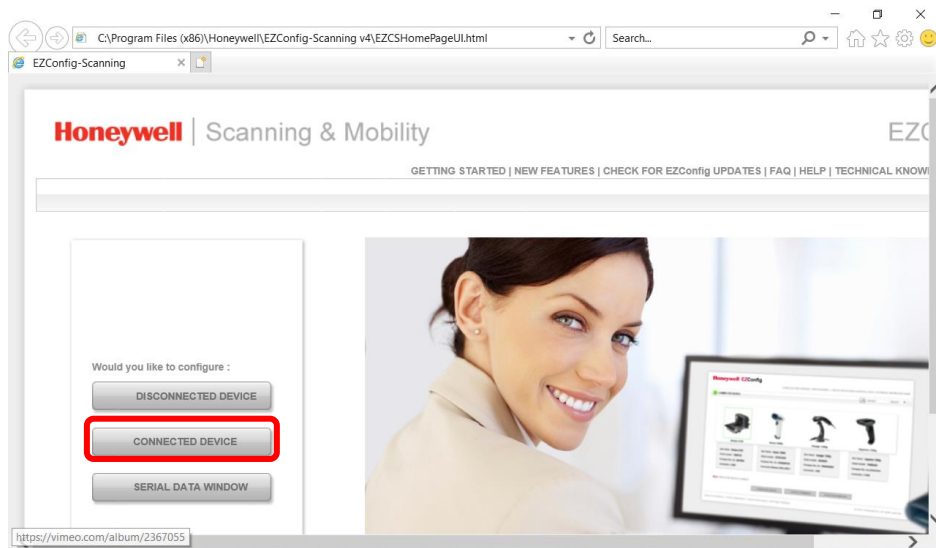
4. Double check "Device Manager" to make sure the COM Port number has been re-defined successfully, and then restart the system.

4.10 Adjusting LED Brightness

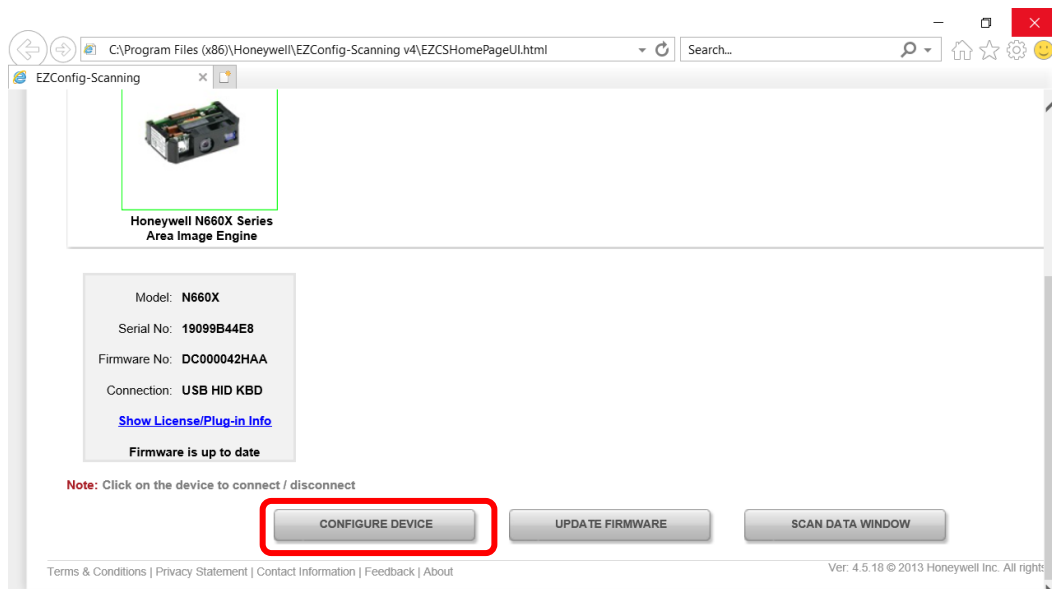
1. Open EZConfig-Scanning V4_IE Icon

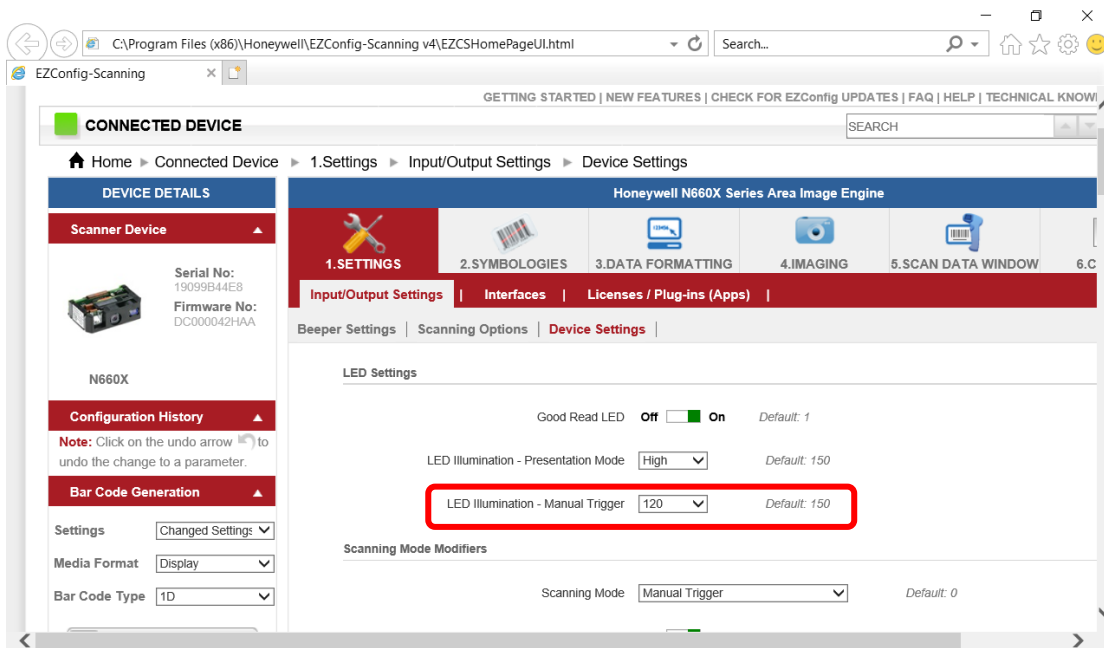


2. Open Connected Device

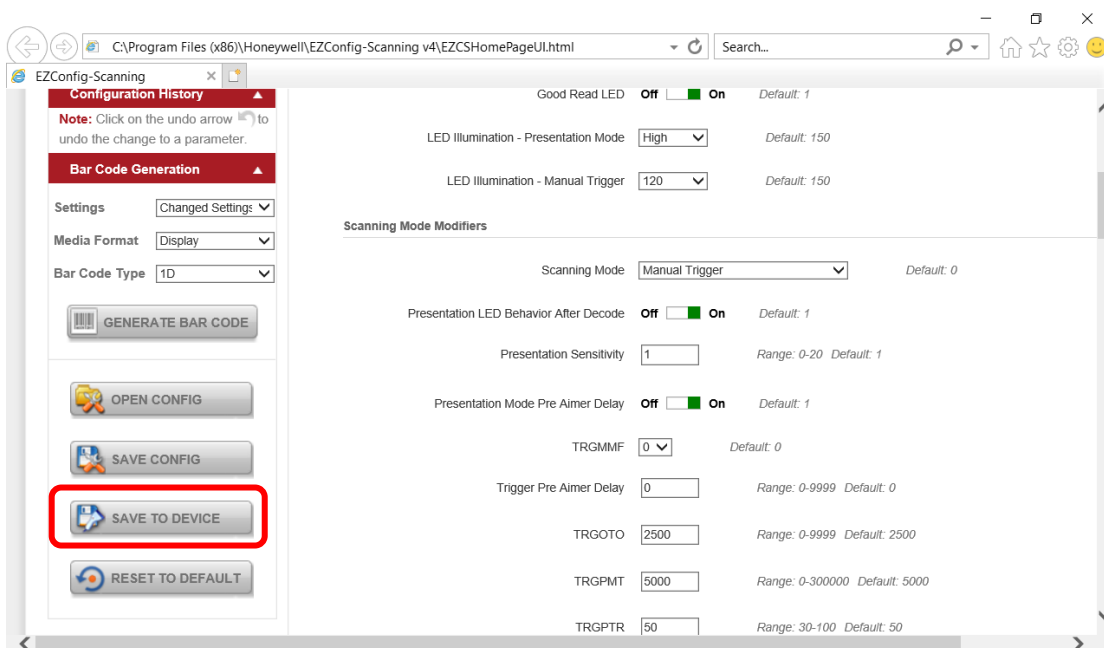


3. Open Connected Device

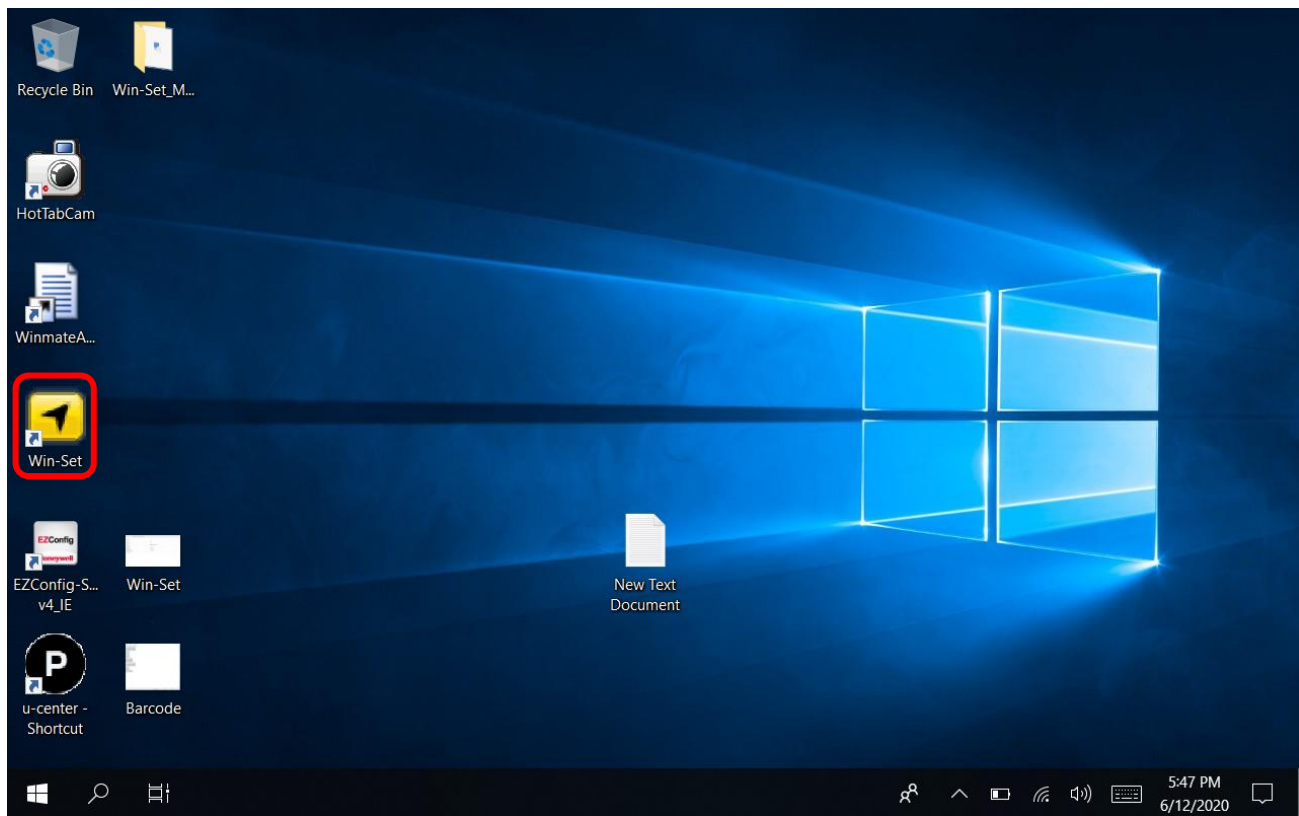


4. Open Settings → Device Settings → LED illumination - Manual Trigger **Setting change 120**

5. Save To Device



6. Open Win-Set Icon



7. Barcode Scanner Wedge turns OFF

System Information	Function Buttons	Device Control	Exit
Option Device			
Barcode Scanner Wedge		ON	OFF
RFID Scanner Wedge		Settings	

8. Barcode Scanner Wedge turns On

System Information	Function Buttons	Device Control	Exit	
--------------------	------------------	----------------	------	--

Option Device

Barcode Scanner Wedge	ON	OFF
RFID Scanner Wedge	Settings	

9. Scanner Barcode

New Text Document - Notepad

File Edit Format View Help

12345678901234567890
12345678901234567890
12345678901234567890
12345678901234567890
01234565
01234565
01234565
01234565
01234565
01234565
00712345678904
00712345678904
00712345678904
00712345678904
12345678901234567890
12345678901234567890
12345678901234567890
12345678901234567890
01234565
01234565
01234565
00712345678904
00712345678904

Windows (CRLF) Ln 24, Col 1 100%

Chapter 5: Frequently Used Settings

This chapter lists frequently used and recommended settings of your tablet.

5.1 Screen Resolution Scaling and Setting

The M101EKB has a high resolution 1280 x 800 display which is perfect for viewing image, video, or other applications, however, 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 element without having to move away from the optimal resolution setting at 1280 x 800. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.



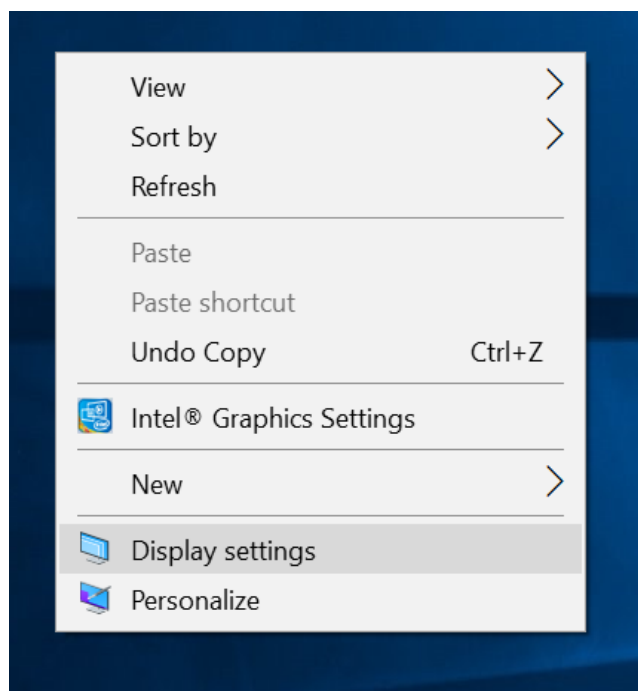
Note:

- The Tablet computer is shipped with 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.

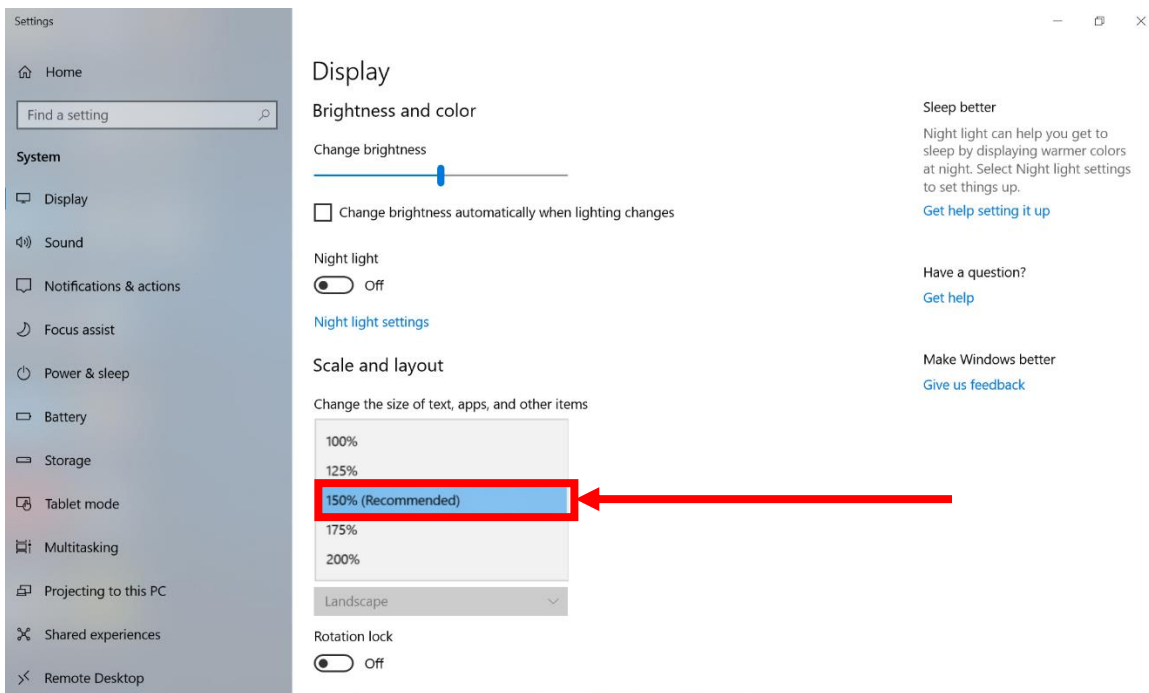
5.1 Changing Display Scaling Setting (Recommended)

Perform the following to change 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:



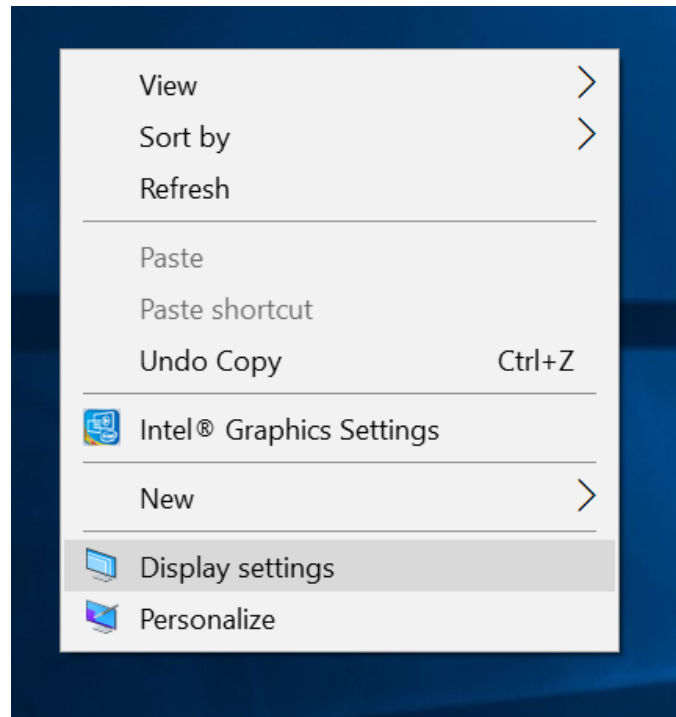
1. A “Display” Window will show up. Click on the dropdown option under the “**Scale and layout**” section and change the scaling option to “**150% (Recommended)**” or any other desired display scaling.



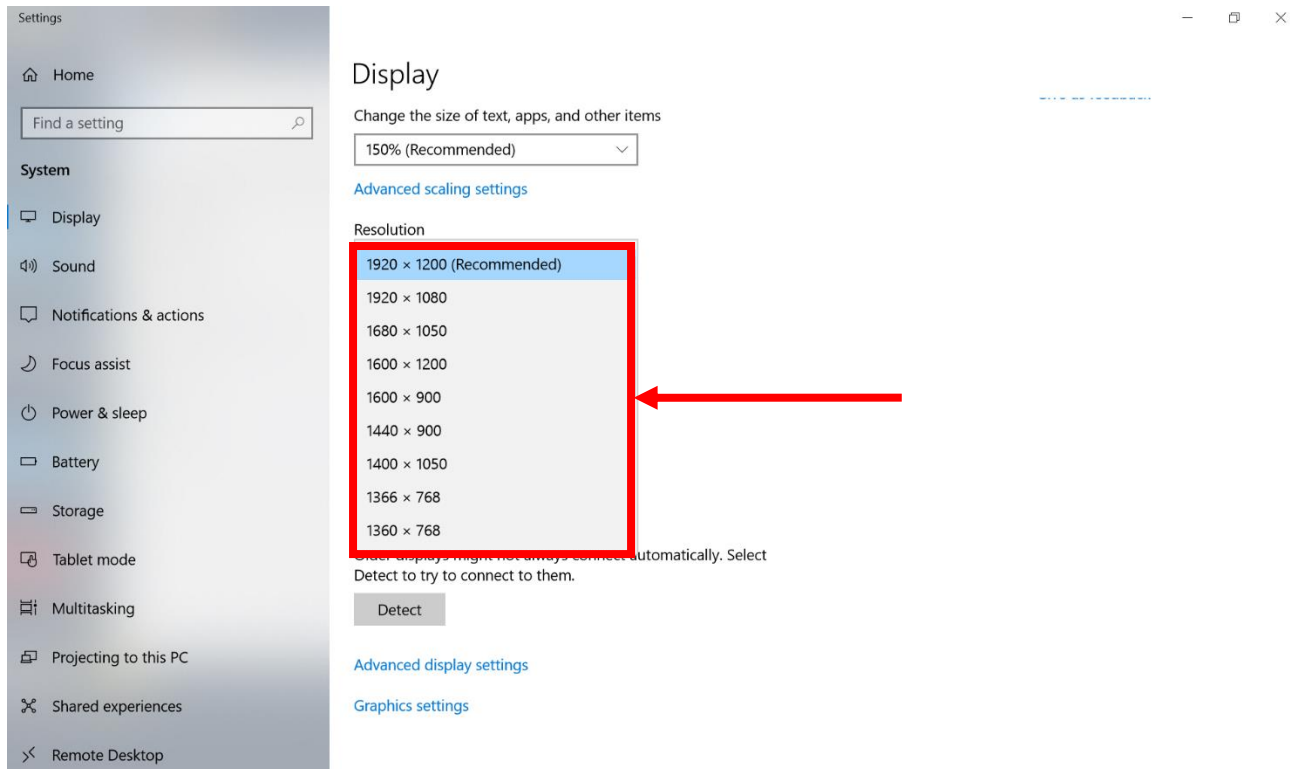
5.1.2 Changing Resolution

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 desired resolution by tapping on the scale:



2. Hit “**Apply**”. A prompt “**Display Settings**” prompt will show up to ask the user if the applied resolution is usable.
3. 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**” and select a different resolution to change to, and start again from step 2.
4. The user may now use the device with the new resolution setting.

5.2 Pairing with a Wireless Bluetooth Barcode Scanner with Bluetooth Serial Port Profile

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

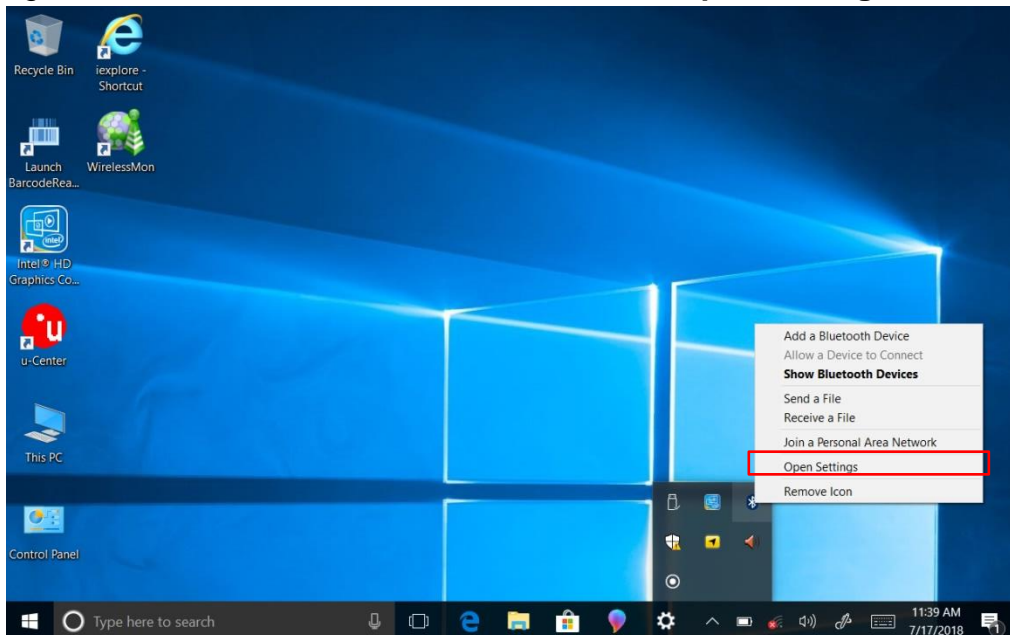
5.2.1 Setup Computer for Bluetooth Pairing

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

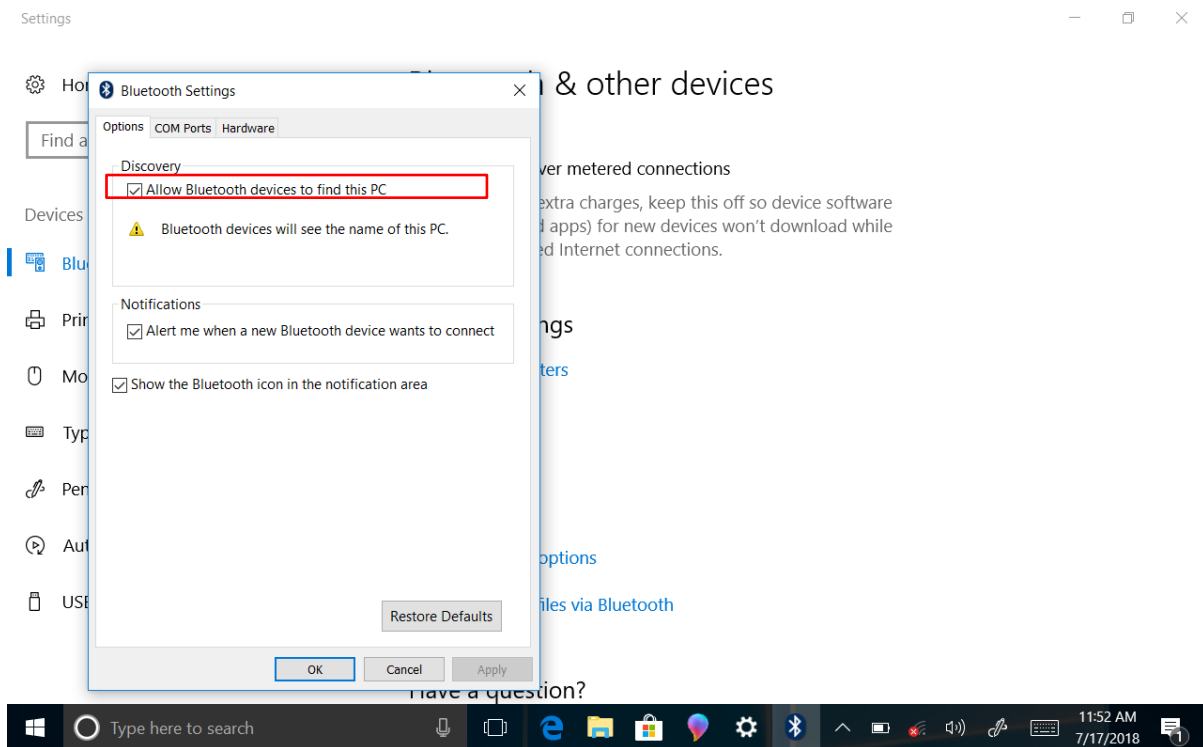
1. Locate the **Bluetooth** icon  in the Notification Area.



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

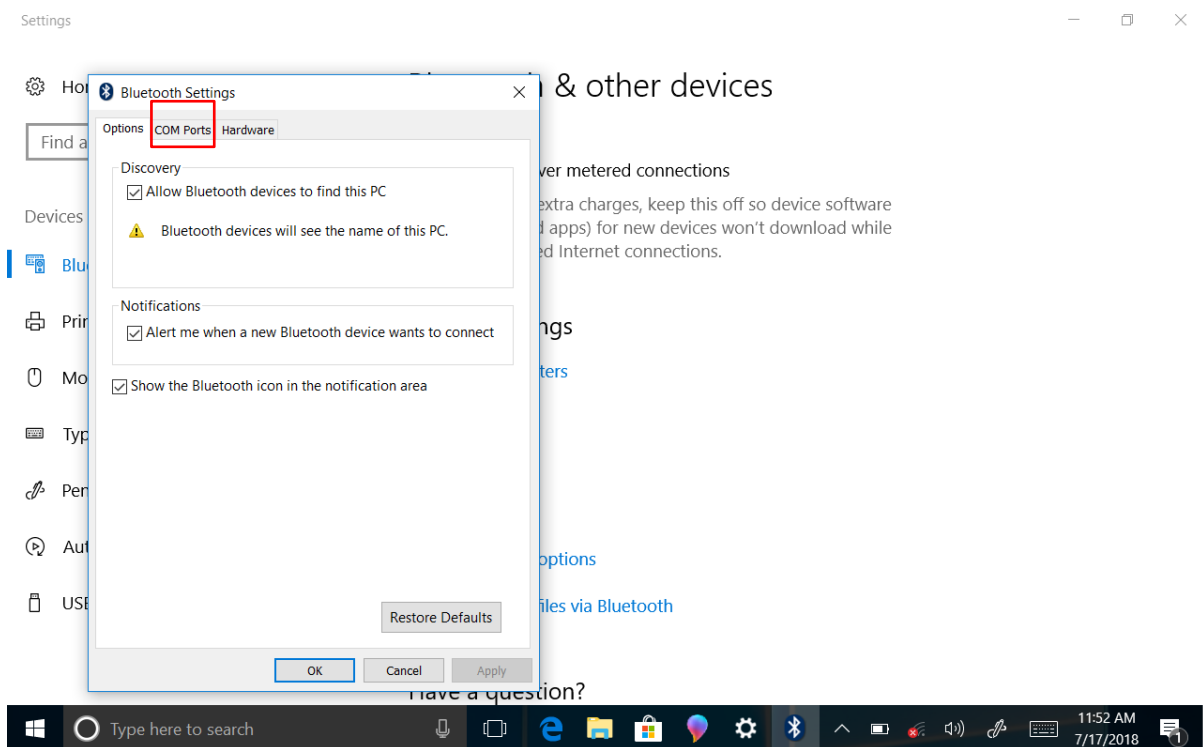


3. Once the **Bluetooth and Other Devices** Menu appears, scroll down to “**More Bluetooth Options**” tab, and make sure that the computer is set to “**Allow Bluetooth devices to find this PC**”, as shown below:

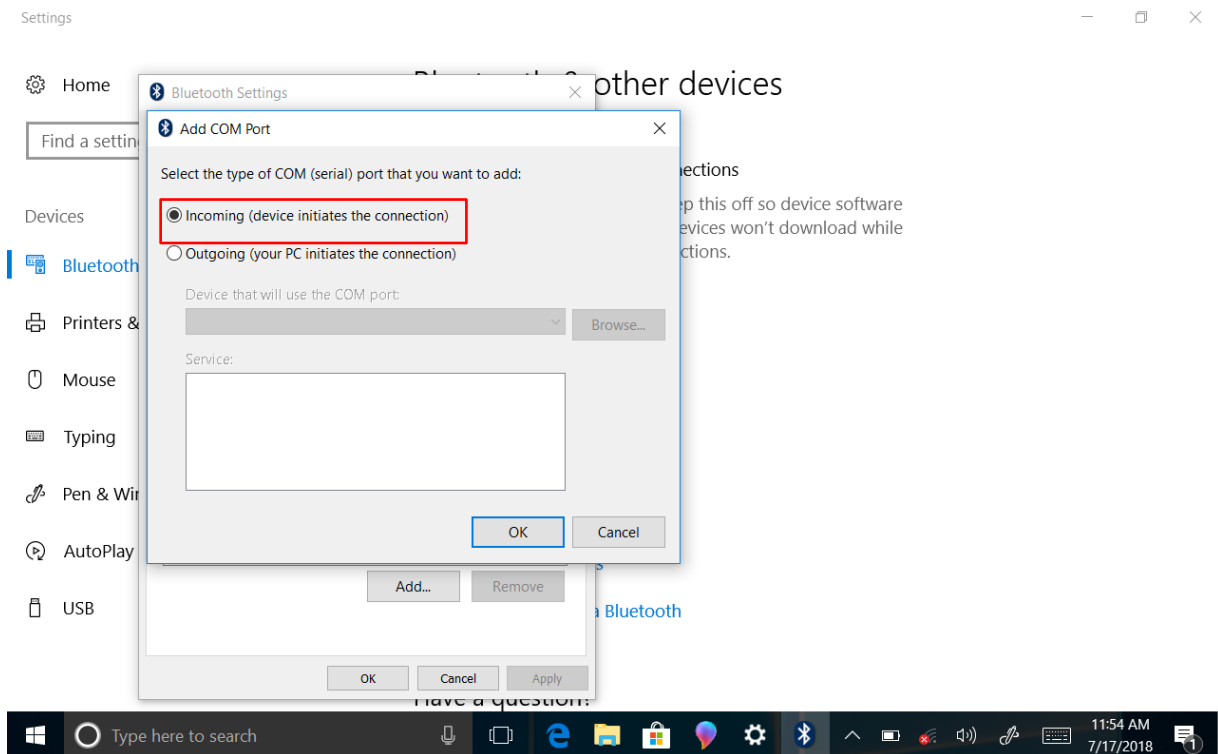


Click **OK** to continue.

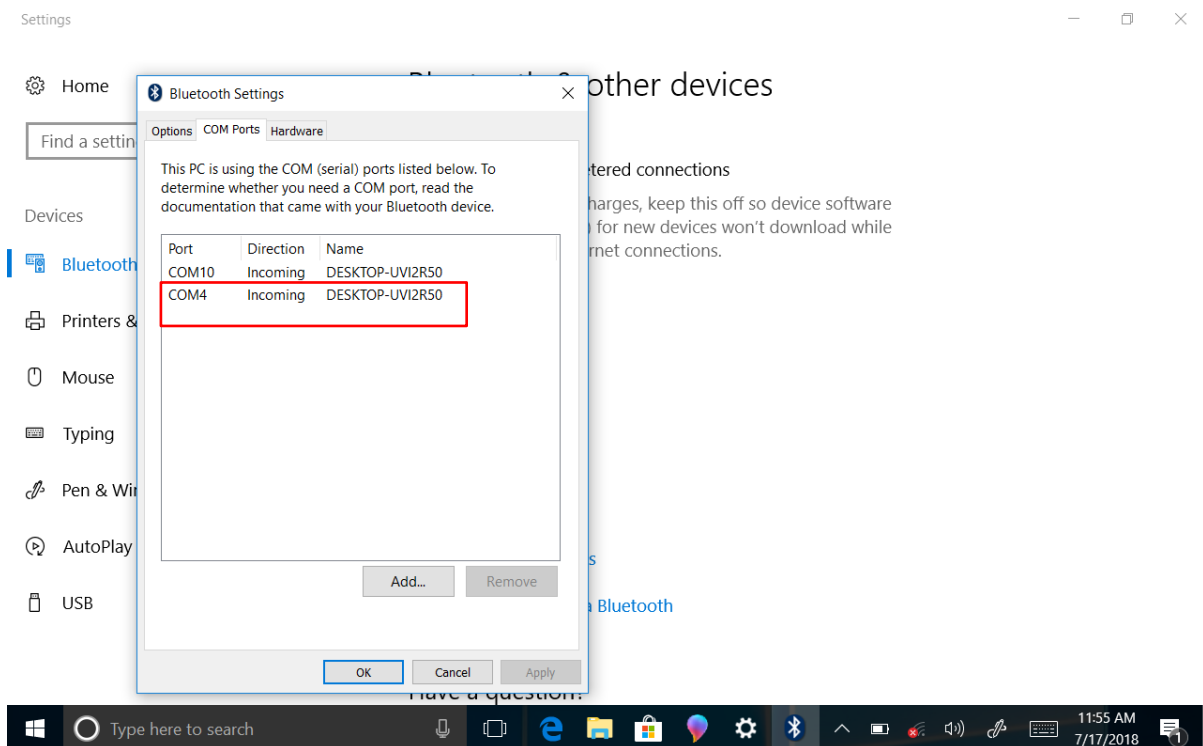
4. In the **Bluetooth Settings** menu, go to “**COM Ports**” tab. COM port has to be setup for the wireless Bluetooth Barcode Scanner to communicate via the Bluetooth Serial Port Profile. Click on the “**Add...**” button.



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



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



Click **OK** to continue.

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



Important:

Make sure the application stays open while pairing.

8. Now the computer is ready to start pairing process.

5.2.2 Set up the Barcode Scanner for Bluetooth Pairing




Important:

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

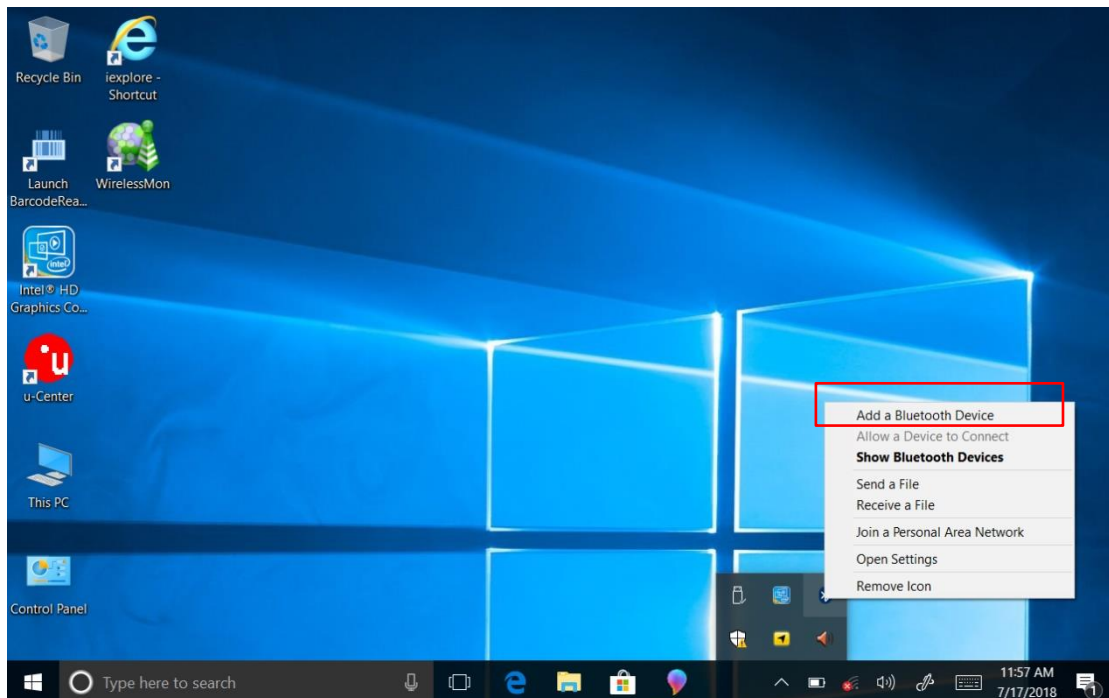
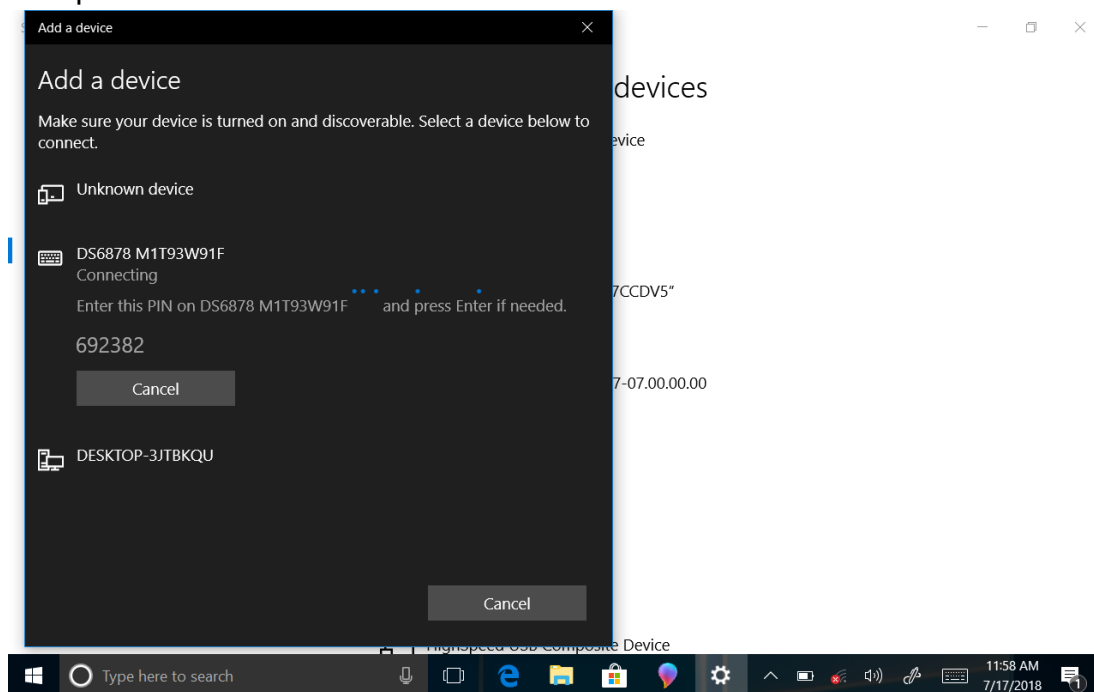
Now the Barcode Scanner is ready for pairing process to start.

5.2.3 Bluetooth Pairing

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

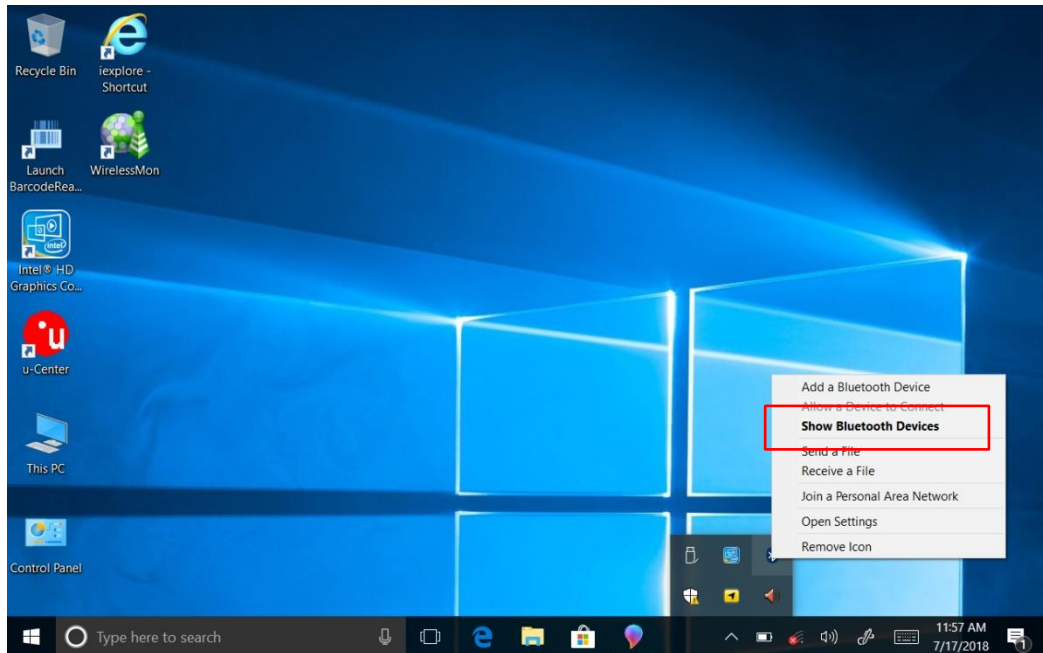
1. Open a program that is used for pairing.
2. Perform scanning procedures. A Bluetooth notification window pops-up on the right-hand side of the desktop. **Left click** on the mouse to enter the Add a device menu.
3. Locate the **Bluetooth** icon  in the Notification Area.



4. Click **Add a Bluetooth Device**.5. In **Add a Bluetooth Device** window, click **Next** to connect the Barcode Scanner to the Computer.6. The Barcode Scanner has successfully been added to this computer. Click **Close** to exit “Add a device” menu.

In order to make sure that Bluetooth Device is successfully paired to the Computer, follow the steps below:

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



You can access this menu in the Control Panel:

Windows  → Control Panel → Devices and Printers → Bluetooth Devices

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

5.3 Using Recovery Wizard to Restore Computer

M101EKB tablet computer has a dedicate recovery partition stored on the hard drive of the tablet to enable quick one-key recovery process. This partition occupies about 11GB of the storage space, and comes built-in to each M101EKB tablet computer.



Important:

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

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

1. Plug-in the AC adapter to M101EKB tablet computer. Make sure the M101EKB tablet computer stays plugged in to power source during the recovery process.
2. Power on the tablet computer, and when the boot screen shows up, press the **F6** button (Recovery Key) on the front bezel OSD button 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 recovery process.



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

Appendix

This section contains additional product information.

Appendix A: Troubleshooting

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

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

Appendix B: Technical Specification

Model Name	M101EKB	
Display	Size	8 inches
	Resolution	1280x800
	Brightness	800 nits
	Contrast Ratio	800:1
	Viewing Angle	80,80,80,80
	Touch	Projected Capacitive Multi-Touch
System Specification	Processor	Intel Celeron N6211 @1.20 GHz (up to 3.00 GHz) Intel Pentium N6415 @1.20 GHz (up to 3.00 GHz) (Optional)
	System Memory	4GB DDR4 SDRAM (up to 32 GB)
	Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
	Operating System	Windows 10 IoT Enterprise LTSC (64bit) Windows 11 IoT Enterprise SAC (64bit) (Optional)
	BT	Support
	GNSS	GPS, GLONASS
	WWAN	4G (Optional) 5G (Optional)
	RFID	HF RFID 13.56 MHz reader (Optional) add-on UHF RFID Reader (Optional)
Camera	Rear Camera	8MP Rear Camera with auto-focus and LED light
Mechanical	Dimensions	271.9 x 198.2 x 22 mm
	Weight	1.35 kg
	Cooling System	Fan design
I/O Ports	USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type-C support Power Delivery 20V In)
	Video	1 x Micro HDMI(Optional)
	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 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 (AC mode), -10°C to 50°C (Battery mode)
	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

Model Name	M101EKB	
Certification	Certification	CE, FCC
Security Function	SOTI MobiControl	SOTI MobiControl Compliance
	Kensington Lock	Support
Control	Button	Physical Buttons: ISO/IEC 9995-3 QWERTY Keypad , IP65 water and dust proof, with LED backlight (keypad dimensions : min. 10x10mm) 1 x Power, 10 x Function Keys (programmable by Hottab)
Power	Battery	Hotswappable 7.7V, typ. 5900 mAh LiPolymer Battery (2S1P)
	Battery Operating Time	Standard. Battery: 8 hours
	Power Rating	19V DC
	Adapter	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 Micro HDMI Cable USB-C to Ethernet Adapter USB-C to RS232 Adapter USB-C to USB-A Hub

1. Total usable memory will be less depending upon actual system configuration.
2. 1D/2D Barcode Reader and HF RFID Reader are mutually exclusive options.
3. Length measurements do not include protrusions. Weight varies with options.
4. The drop test with high-capacity battery must come with hand strap.
5. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.

Notes

Notes

