

M101S-EX

10.1" Anti-explosion Windows Tablet for ATEX/IECEX Zone II and C1D2

Intel Core i5-7200U 2.5GHz (up to 3.1GHz)

Intel Core i5-7300U 2.6GHz (up to 3.5GHz) (Optional)

Windows 10 IoT Enterprise



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

Attention Une alerte d'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 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 Disassemble, Modify, or Insert Sharp Objects Into the Battery Pack. Electrolyte leakage, generation of heat, ignition or rupture may result.

[FR] 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.

[FR] 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 occurs.

[FR] 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.

[FR] 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.

[FR] 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 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

[FR] 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 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.

[FR] 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.

[FR] 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.

[FR] 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*

- 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.
- *[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, 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.
- *[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.*

- 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 éviers, 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 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.
- *[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 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.
[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 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.

[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 the 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 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.

[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 the 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 legislations and harmonized standards. Product also complies with the Council 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 Radio Frequency Bands

WiFi:

802.11a/b/g/n/ac

2.4GHz:CH1~CH13

5GHz:CH36/CH38/CH40/CH44/CH46/CH48/CH50/CH52/CH56/CH60/CH64/CH100/CH102/CH104

CH108/CH112/CH114/CH116/CH120/CH124/CH128/CH132/CH136/CH140/CH144/CH149

CH153/CH157/CH159/CH161/CH165

Bluetooth:5.0

CH0~CH39

LTE:B1/B3/B7/B8/B20

Wcdma:B1/B3/B8

1.6 Maximum Radiated Transmitter Output Power

WiFi:

2412 - 2472 MHz: 17dBm \pm 1dBm

5180 - 5240 MHz: 17dBm \pm 1dBm

5260 - 5230 MHz: 18dBm \pm 1dBm

5500 - 5700 MHz: 18dBm \pm 1dBm

LTE:B1/B3/B7/B8/B20 23 dBm \pm 1dBm

Wcdma: B1/B3/B8 23 dBm \pm 1dBm

1.7 Copyright Notice

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1.8 Trademark Acknowledgement

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Chapter 2: Getting Started

This chapter tells you step by step how to get the Tablet Computer up and running.

2.1 Introduction

Congratulations on purchasing Winmate® 10.1-inch Rugged Windows Tablet M101S-EX.

M101S-EX is a rugged tablet with robust set of 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's Core i5-7200U Kaby Lake processor paired with genuine Intel graphics for high performance. 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 1250 grams) the M101S-EX delivers lightweight mobility in a rugged tablet.

Highlights

- Ex Certificate for Hazard Location Applications, ATEX Zone II, IECEx Zone II, UL C1D2
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- 7th Gen Intel® Core™ i5-7200U Kaby lake Processor rugged Tablet
- Hot-swappable battery design with optional High-capacity battery pack
- IP65 waterproof and dustproof, MIL-STD-810G shock, vibration, and drop resistance
- Sunlight readable with antiglare solution, fully rugged Tablet

2.2 Unpacking

Check and identify the supplied accessories:

- **Tablet Computer**



- **Standard Battery**

Part No. 98K000A000D6



- **Power Adapter**

Part No. 922D065W19V6



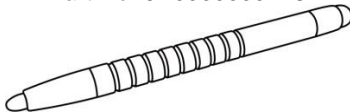
- **Power Cord and Plugs**

Part No. 922D065W19V1

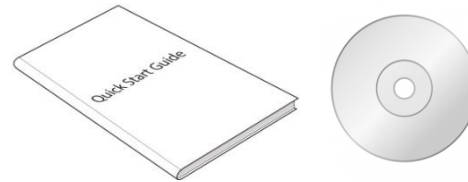


- **Capacitive Stylus**

Part No. 9B0000000415



- **Quick Start Guide & Driver CD**



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

- **Desk Dock**

Part No. 98DT00A0000E

- **Vehicle Dock (without VGA output)**

Part No. 98DT00A0000F

- **Vehicle Cradle**

Part No. 98DT00A00010

- **Vehicle Charger**

Part No. 9226065W19V0

- **High Capacity Battery**

Part No. 98K000A0003S

- **Battery Charger**

Part No. 98KT00A0000F

- **Hand Strap**

Part No. 98K000A0003J

- **Shoulder Strap**

Part No. 98K000A0003Q

- **Carry Bag**

Part No. 9B000000003J

- **Micro HDMI Cable**

Part No. 9491191190K1

- **USB-C to Ethernet Adapter**

Part No. 9AN00000000I

- **USB-C to RS232 Adapter**

Part No. 9AN00000000L

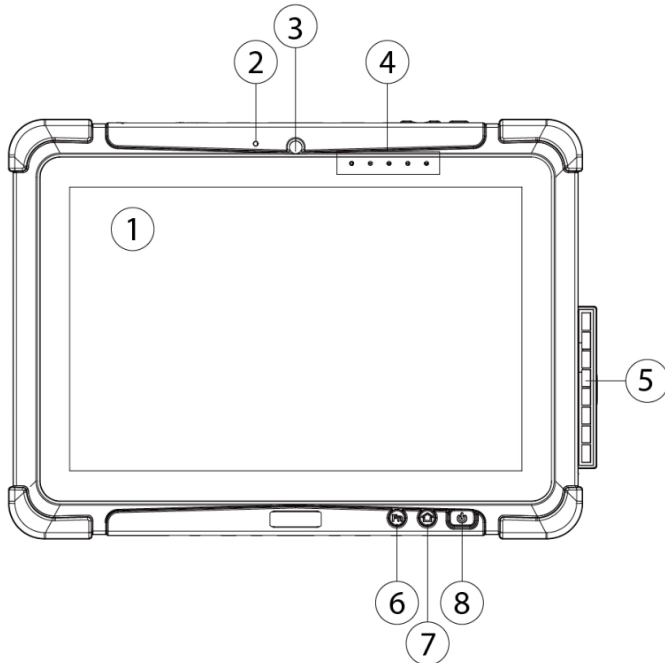
- **USB-C to USB-A Hub**

Part No. 9AN00000000J

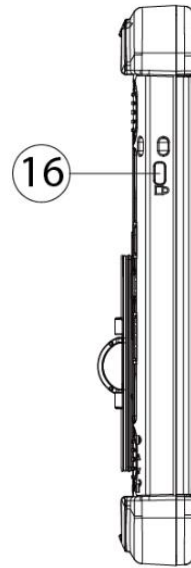
2.3 Description of Parts

Dimensions: 271.80 x 198.21 x 21 mm

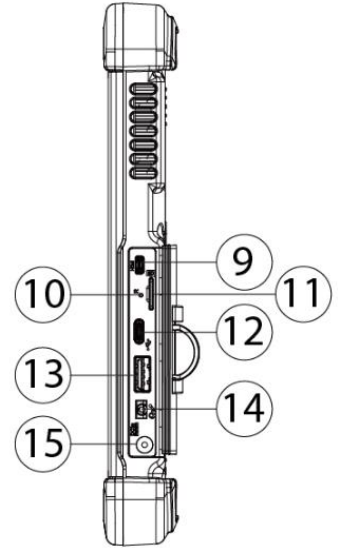
Front:



Left:



Right:

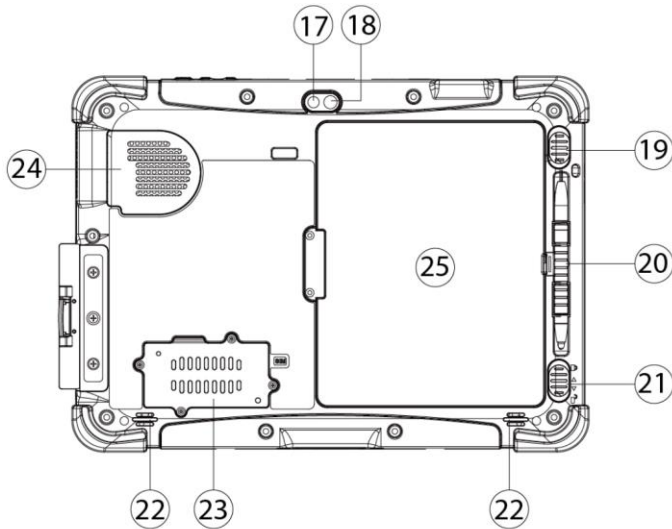
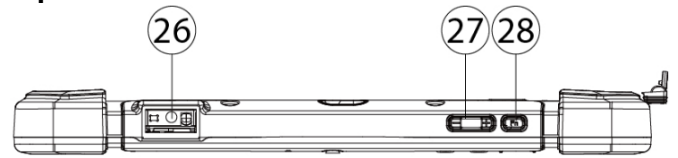
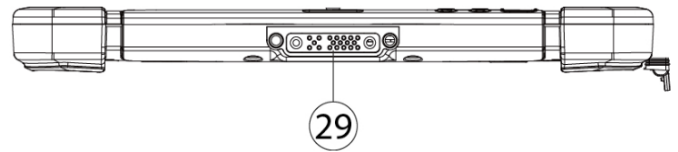


| No | Item | Description |
|----|-------------------------------------|---|
| 1 | 10.1" Touch Screen | Display and act as one of the inputs for the Tablet Computer |
| 2 | Digital Mic with noise cancellation | Use during video recordings and communications. |
| 3 | Front Camera | 2 Megapixel Webcam |
| 4 | Light Sensor and LED Indicators | Show the current status of the Tablet Computer. RF communications, storage, battery status, power status. |
| 5 | I/O Cover | Protect I/O ports |
| 6 | Fn1 Button | Programmable function key configured by Hottab Utility |
| 7 | Menu Button | Hottab Quick Access |
| 8 | Power Button | Power on/off tablet |

Front LED Indicator Details:

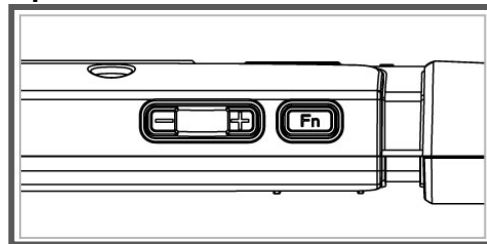


| No | Item | Description |
|----|---------------------|--|
| 9 | Micro HDMI | HDMI output to external display |
| 10 | Reset Button | Hardware reset button |
| 11 | MicroSD Card Reader | Memory card reader port for MicroSD Card |
| 12 | USB 3.0 Type-C | High speed USB port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc. Note: The USB Type-C connector follows USB 3.0 standard, which does not support Alternate Mode (ALT) or USB Power Delivery (USB-PD). |
| 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. |
| 16 | Kensington Lock | Use to attached tablet computer around a table leg or another secure location |





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

| No | Item | Description |
|----|---------------------------------|---|
| 17 | Camera Flash | LED camera flash to provide flash lighting when use with camera. |
| 18 | Rear Camera | 8MP Autofocus Camera. Captures photos and videos. |
| 19 | Battery Release Slider | Spring-loaded slider that latches the battery in. |
| 20 | Touch Pen Slot | Pen holder slot to store touch pen |
| 21 | Battery Lock Latch | Latch to lock the battery in place once battery is inserted. Not spring-loaded. |
| 22 | Speakers | Emits sounds. |
| 23 | 3G / LTE Module / SIM card slot | Service window to insert Micro SIM card. Also provide access to 3G / LTE Module. |
| 24 | Fan Intake | Intake for Waterproof Fan |
| 25 | Battery | 7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P, optional) |

| No | Item | Description |
|----|-------------------|--|
| 26 | Optional Barcode | Barcode Scanner for reading of 1D/2D barcode. |
| 27 | Volume Buttons | Volume Control. (+) Raise volume, (-) Lower volume. |
| 28 | Fn2 Button | Programmable function key configured by Hottab Utility |
| 29 | Docking Connector | Port to docking solutions such as vehicle docking to provide power and external antenna. |

Top Buttons Details:

2.4 Indicators

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

2.5 Hotkey for Specific Functions

Physical buttons in addition to its dedicated functions 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 |
|-------------------------------|--------------------------------|
| 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 (+) + Volume Down (-) | Ctrl + Alt + Del |

2.6 First-Time Operation

To get started:

1. Install SIM card.
2. Install storage card.
3. Install the battery.
4. Charge your tablet.
5. Start the tablet.

2.6.1 Installing SIM card (For 3G/LTE Equipped Devices)

The Tablet Computer supports 3G/LTE data connection and fits a Micro-SIM card.

To install the SIM card:

Tools Needed:

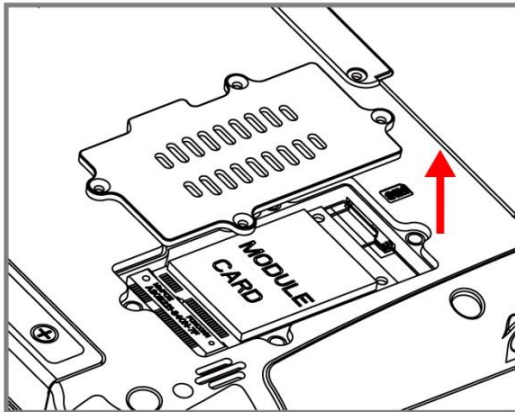
Service Windows

Screw: M2x5, 4 pc
Screwdriver: Philips Type , Size #0 , for
M2 screws, torque: 2.0 ± 0.5 kgf.cm

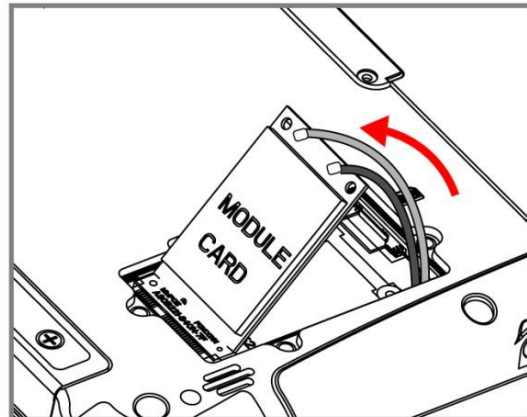
3G/ LTE Module

Screw: M2x3.5, 1 pc
Screwdriver: Philips Type , Size #0 , for
M2 screws, torque: 2.0 ± 0.5 kgf.cm

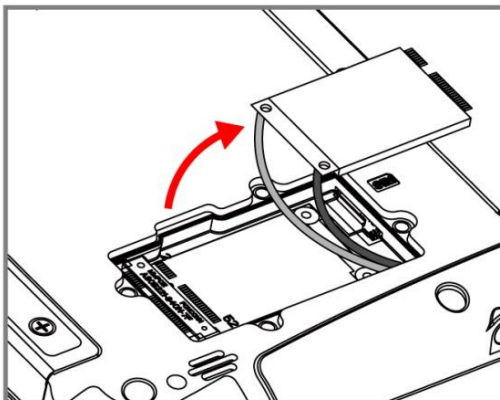
- ① Remove four screws and remove the service window.



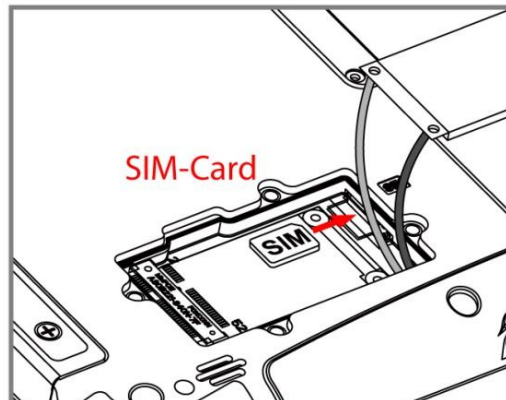
- ② Remove the one screw that secures the 3G/ LTE module. Carefully lift the module up. **Do not to damage the connected cables!**



- ③ Carefully flip and move the 3G/ LTE module and to the right. **Do not disconnect cables!**

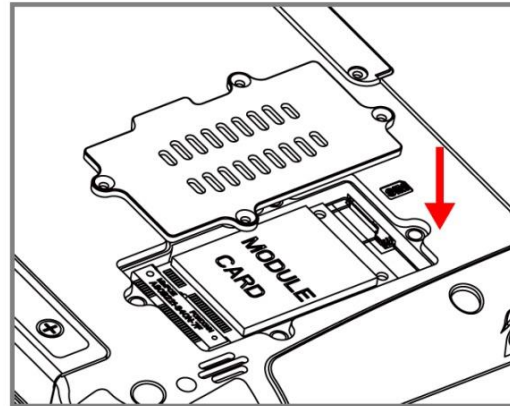
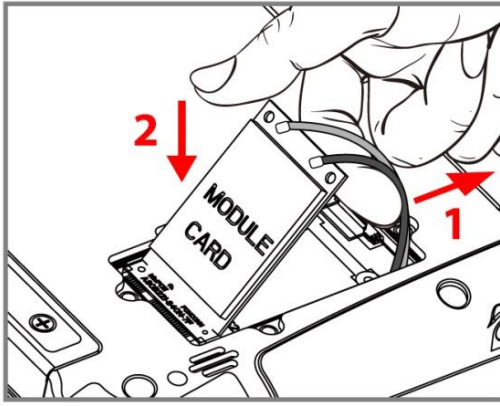


- ④ Insert SIM-Card all the way in. **Chip/ contact facing down.**



- ⑤ Use your hand to carefully pull the cable outside the module card. Re-insert the 3G/LTE module and fasten one screw. Accurately route the cables. **Do not bend cables! Do not pinch/ squeeze the cable!**

- ⑥ Re-insert the service window and fasten with the four screws.



Caution When re-inserting 3G/LTE module, please pay attention to cable routing. Make sure the cable module does not get squeezed.

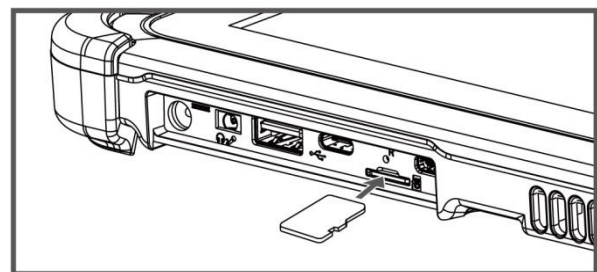
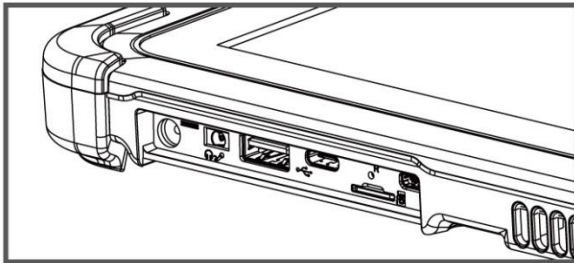
Attention Lors de la réinsertion du module 3G / LTE, veuillez faire attention à l'acheminement des câbles. Assurez-vous que le module de câble n'est pas écrasé.

2.6.2 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 microSD card into slot with contacts facing down.
3. Press the card in to ensure that it is seated properly.
4. Close I/O protective cover.



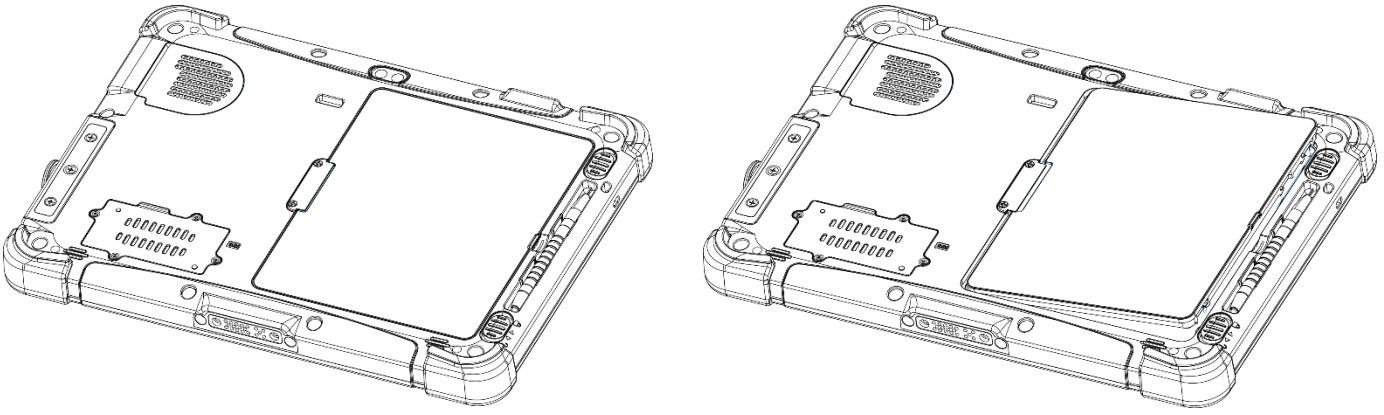
To remove Micro SD Card:

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

2.6.3 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. 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.

2.6.4 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.



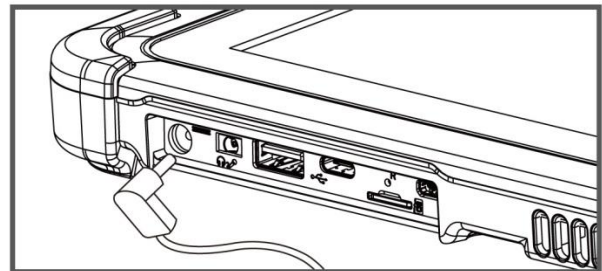
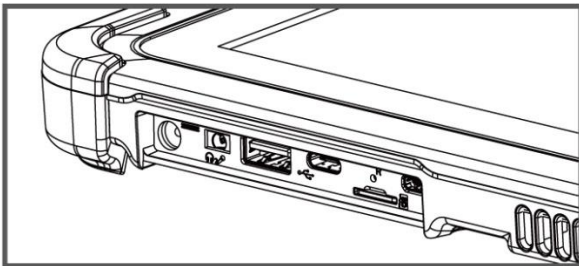
Caution Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

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 battery is charging.

Green - AC adapter is plugged in and 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%).

2.6.5 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 **Fn1** 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 Introduction

The M101S-EX 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.

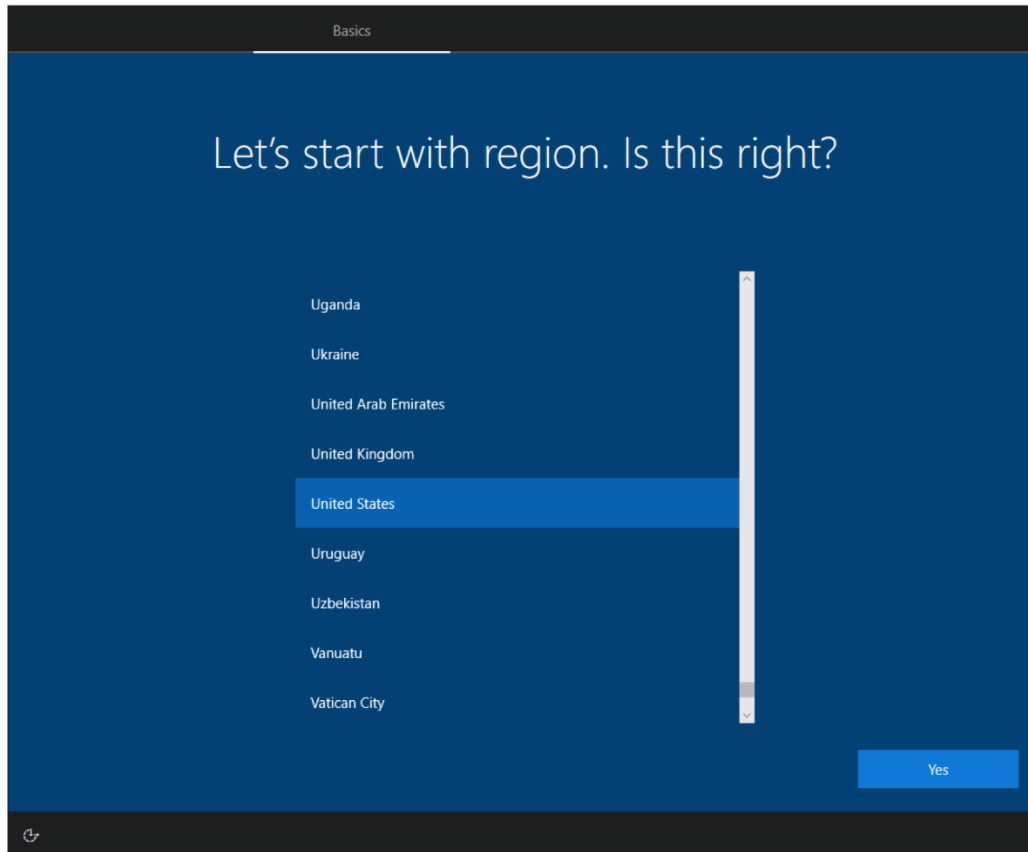
Attention Assurez-vous que la batterie est complètement chargée avant de démarrer la tablette PC pour la première fois avec l'alimentation par batterie interne.

- **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 you have mobile broadband.) This is a public network and is *not* trusted. Select the location where you will most often use the computer.

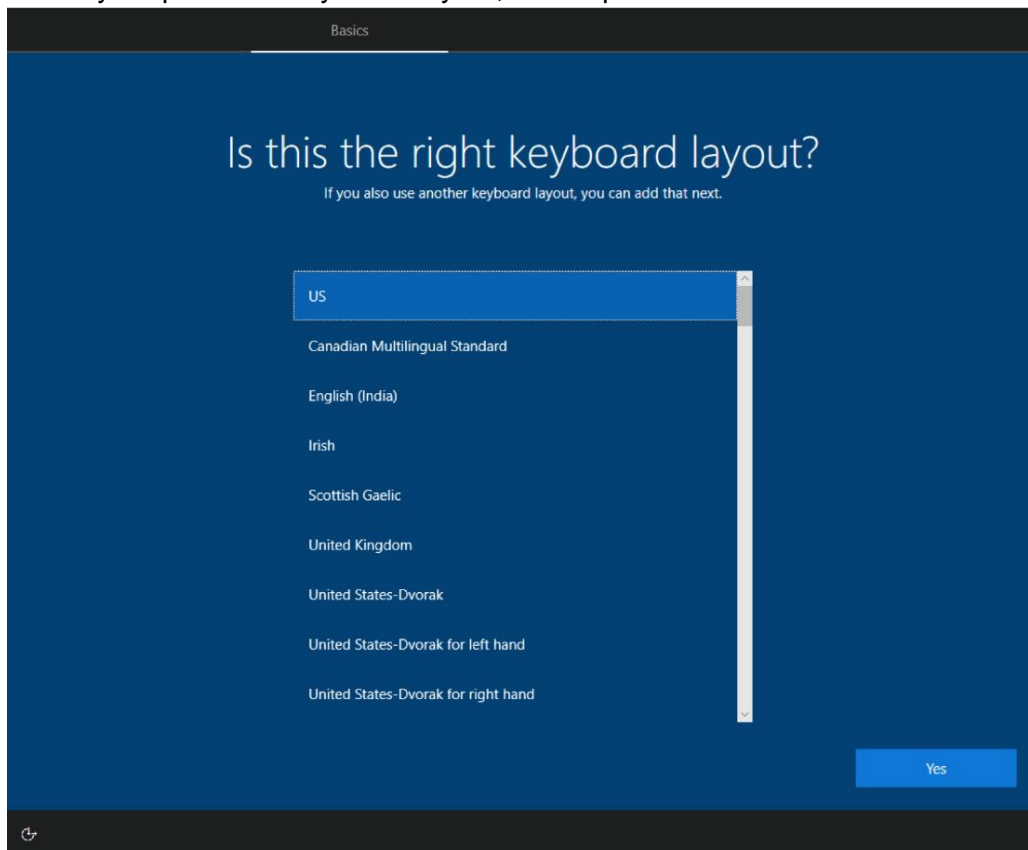
3.2 Setting up Windows 10 IoT Enterprise

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

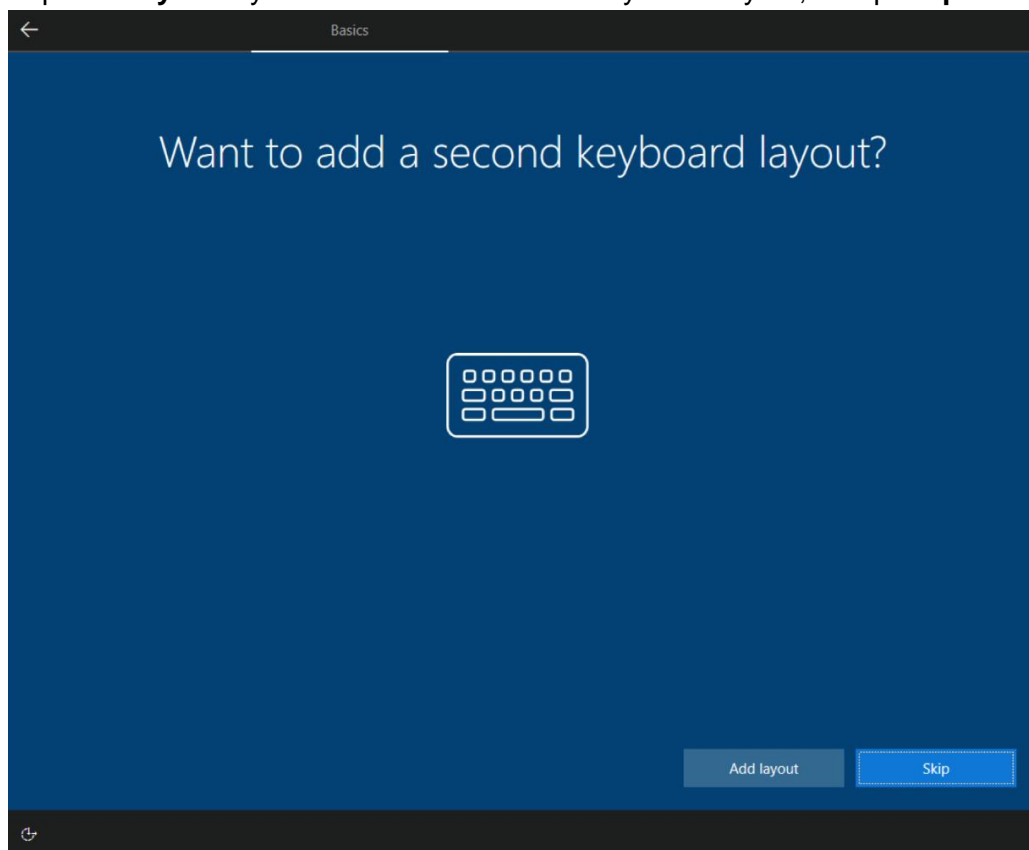
1. Press the power button to turn on the computer.
2. Select your region, then tap Yes.



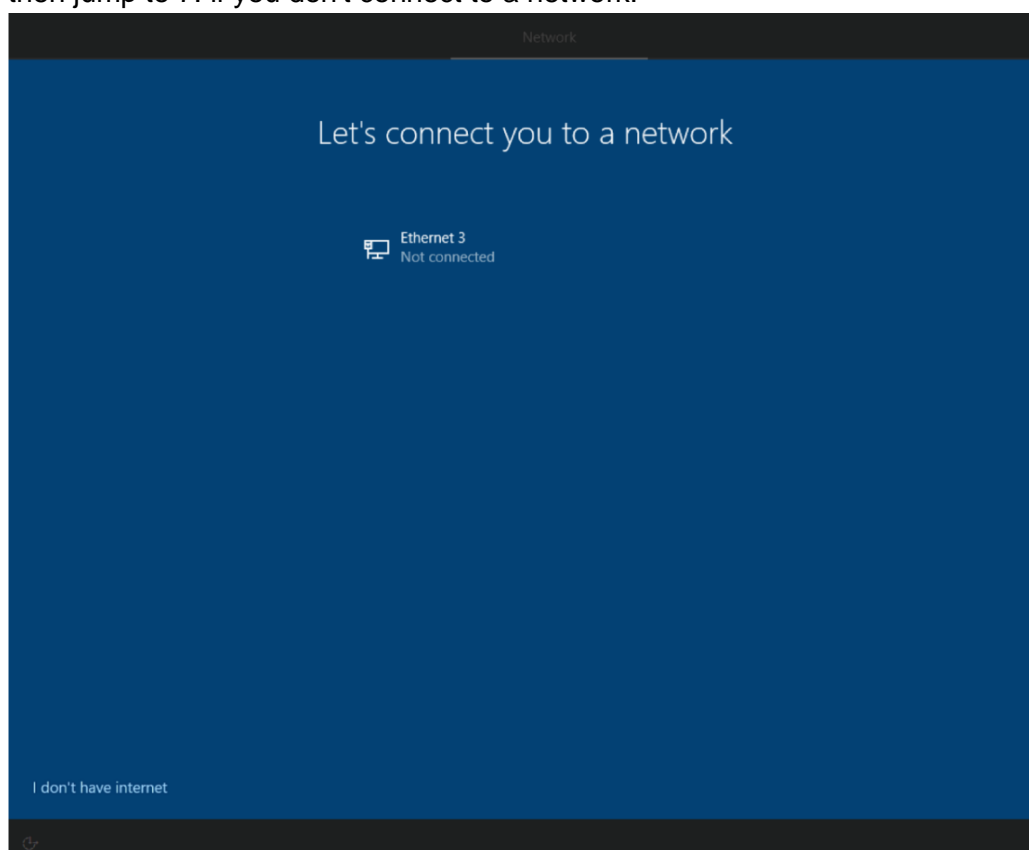
3. Select your preferred keyboard layout, then tap **Yes**.



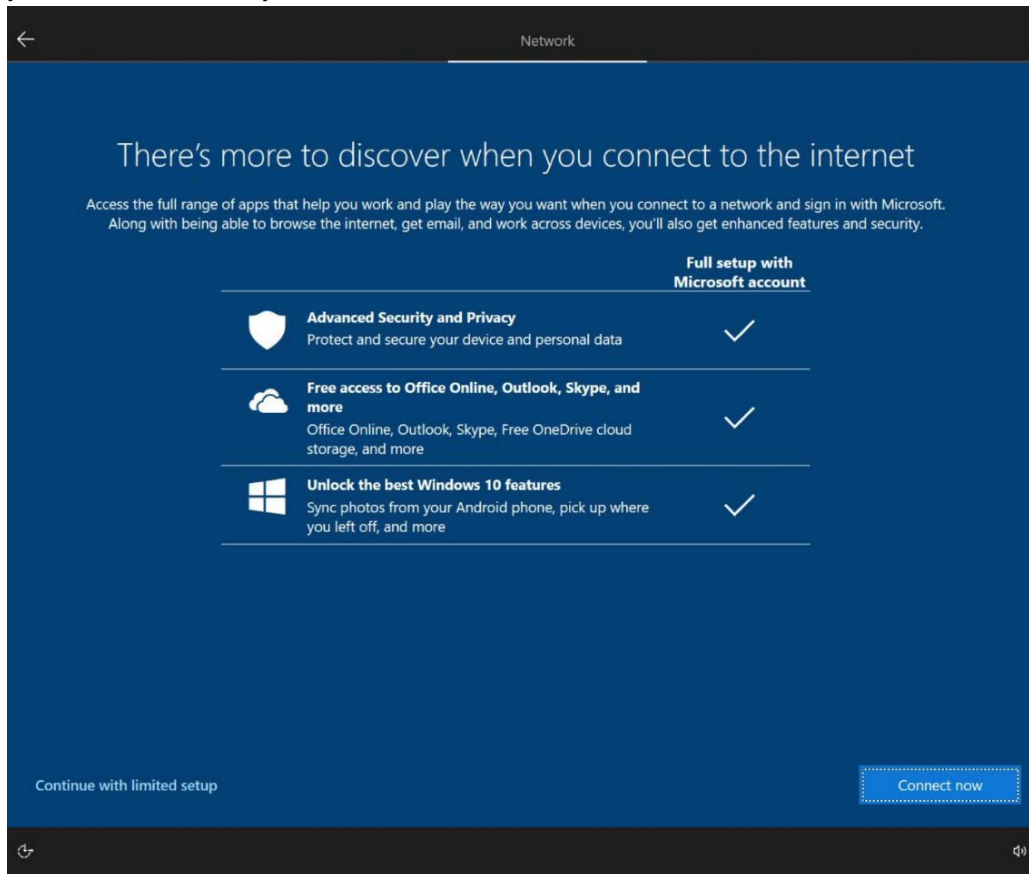
4. Tap **Add layout** if you want to add a second keyboard layout, or tap **Skip** for the next step.



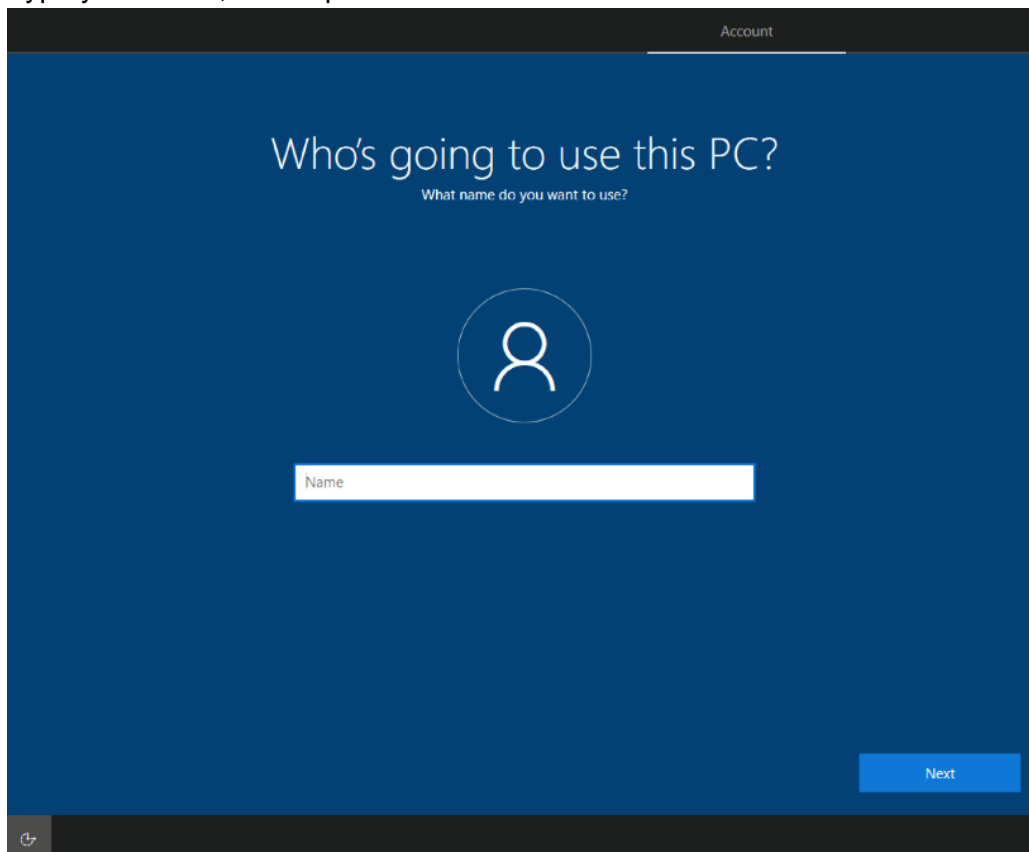
5. Windows will then try to connect you to a network. Select your network or tap **I don't have internet** to continue without a wireless connection, as you can set up the network later. You'll then jump to 7. if you don't connect to a network.



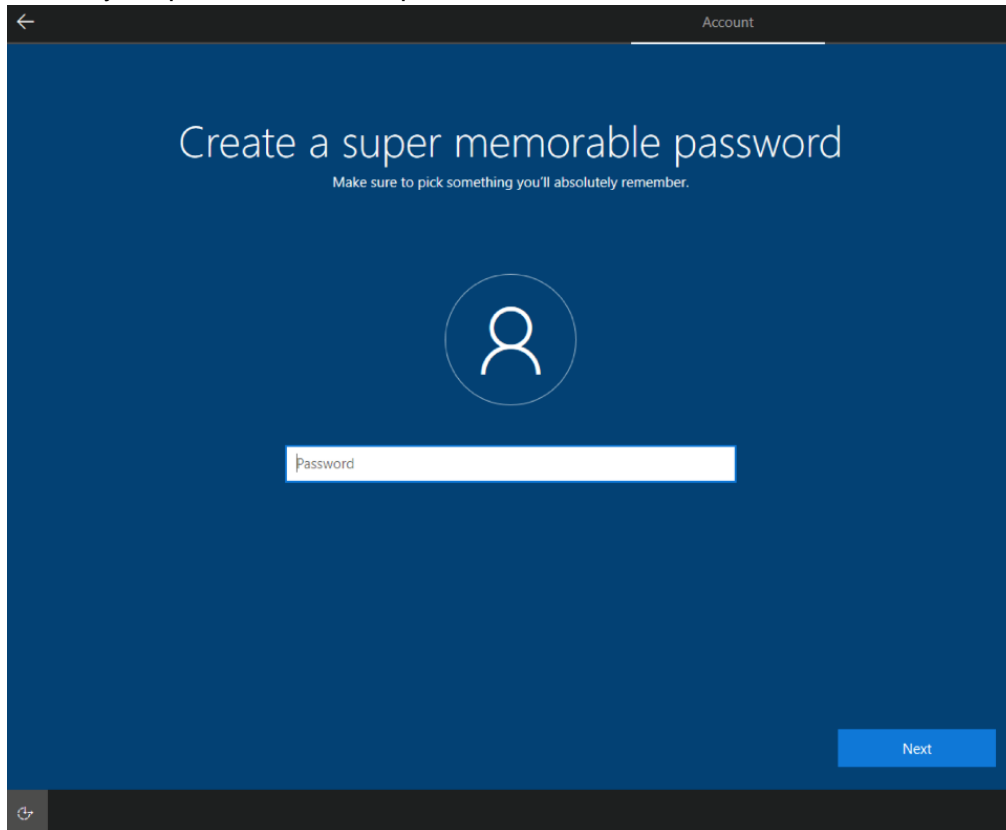
6. Tap **Connect now** to connect to your Microsoft account so that you could get the features and security, or tap **Continue with limited setup** to continue without connecting to the account, as you can connect to your account later.



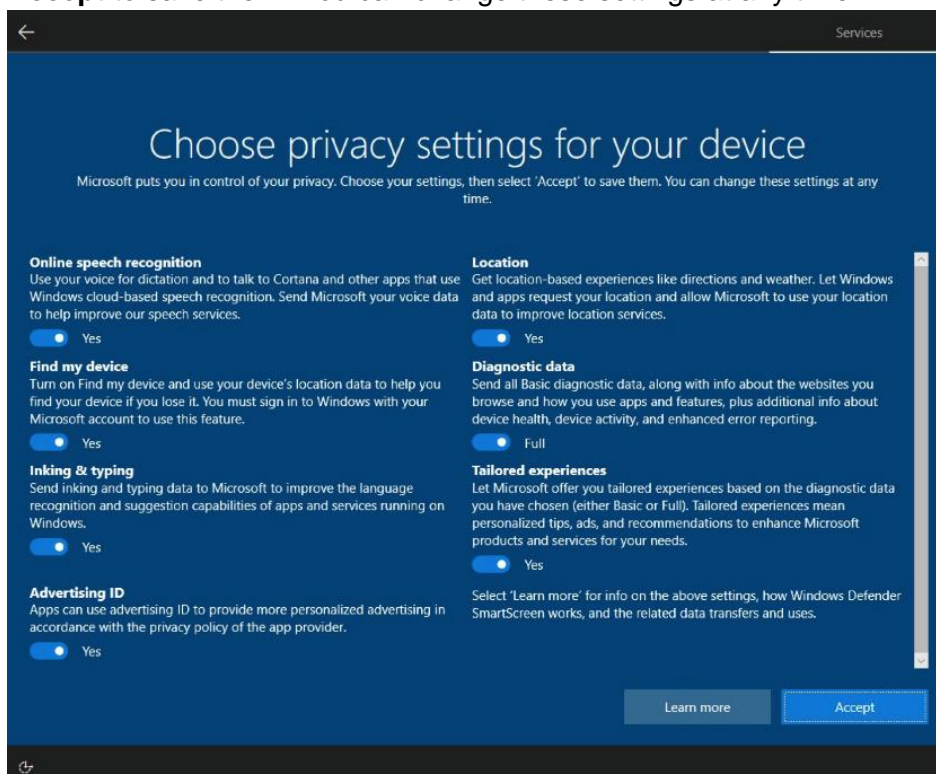
7. Type your name, then tap **Next**.



8. Create your password, then tap **Next**.



9. Read each privacy setting and choose it, you can tap **Learn more** for more information, or tap **Accept** to save them. You can change these settings at any time.



10. 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

This chapter describes how to operate the M101S-EX Tablet Computer, including camera, Hottab, barcode, RFID, WWAN, WLAN, GPS features.




Note: Please download the SDK from Winmate Download Center [here](#).

>> M101S-EX >> Development Kit or check the Driver CD which is shipped with the tablet. Please notice that HF RFID reader, Barcode reader are optional module, please make sure user have ordered the module before using the SDK.

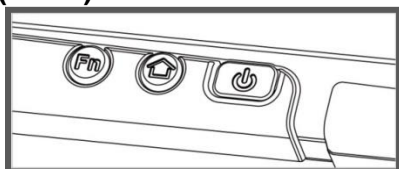
4.1 Hottab Introduction

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

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



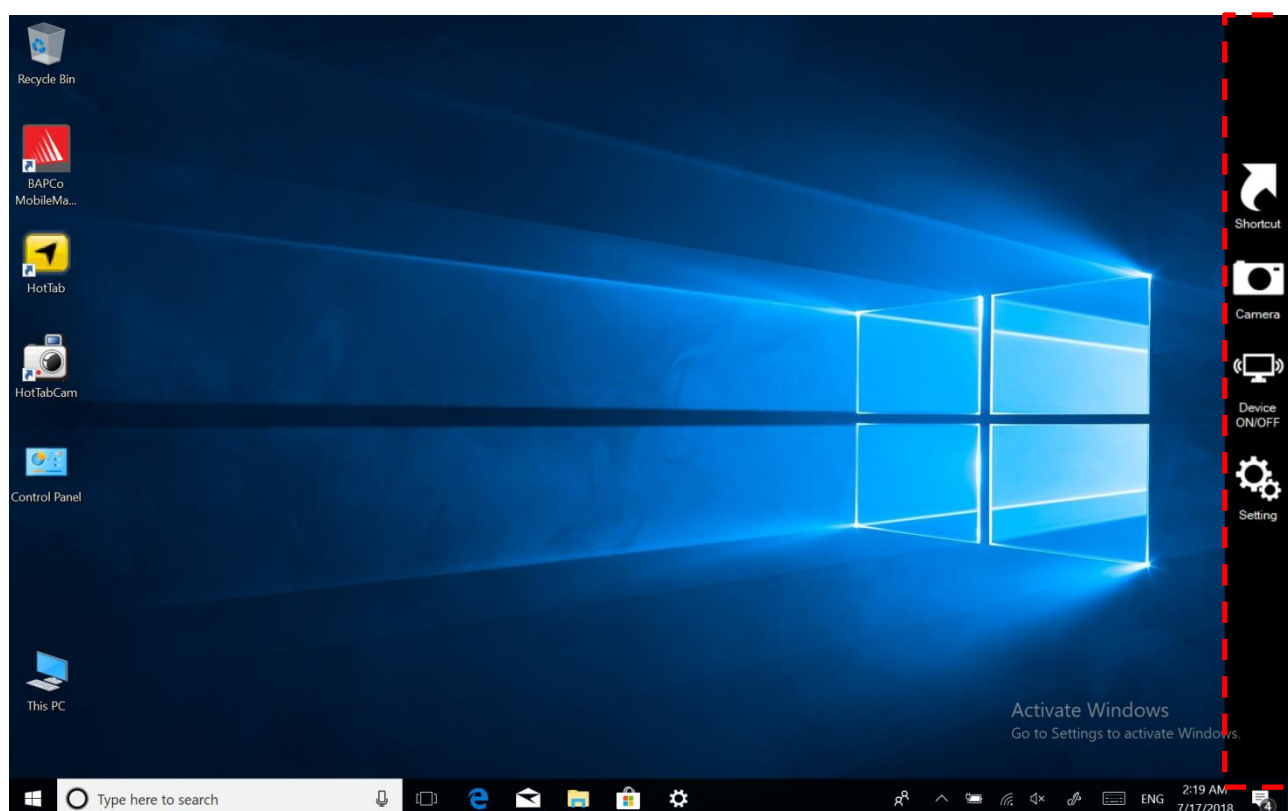
(Menu) Button on the Front Panel:







Hottab Utility Icon:



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

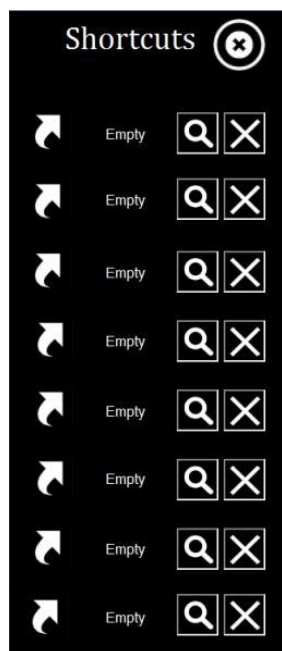


| Icon | Description |
|---|--|
|  Shortcuts | Allows users to configure short cut to quickly access programs with a few tabs. |
|  Camera | Allows users take a picture or record a video. User can also adjust setting related to camera in this menu option. |
|  Device ON/OFF | Enables/disables tablet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



4.2 Shortcuts

Hottab Shortcuts Menu provides an user-friendly interface to configure on-screen software short cuts and allow users to quickly access programs 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 shortcut.
6. Click “Open” to save the shortcut.

To remove an 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. Shortcut will be removed, and once again show “Empty” to indicate slot is empty.

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

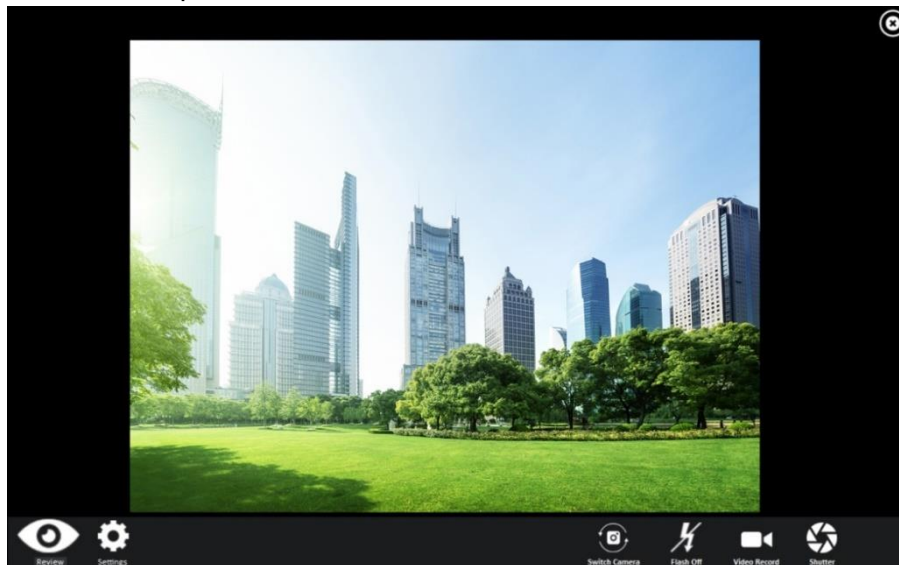
This Hottab menu option allows users take a picture or record a video. Before use, make sure the camera is powered on under Devices ON/OFF menu with the following scenarios.








To open camera interface:

1. Press the  (Menu) button located on the front panel to open Hottab or launch the Hottab Utility.
2. Tap on "Device ON/OFF" button to check the built-in devices status.
3. Check the status color of the **Camera** icon:

| Item | Status Color | Description |
|--|--------------|---------------------|
|  Camera | Orange | Camera is enabled. |
| | White | 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 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. |


4.4 Built-in Devices On/Off


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



4.4.1 Using the Wireless LAN (Wi-Fi)

To use the wireless LAN (Wi-Fi) feature to connect to the network, 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 **Wi-Fi** icon:

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

4. If the Wi-Fi 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 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 setup, try connection to the network with a internet browser such as Internet Explorer.

4.4.2 Using the Wireless WAN (3G/LTE)

The Tablet Computer supports data connection with 3G/LTE modules and fits Micro-SIM card. (**Note:** 3G/LTE feature is optional).

4.4.2.1 Installing a SIM card



Caution Power off the tablet before installing the 3G/LTE 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 3G / LTE et la carte Micro SIM, sinon la tablette peut être endommagée par des comportements d'installation incorrects.

To install the SIM card:

Tools Needed:

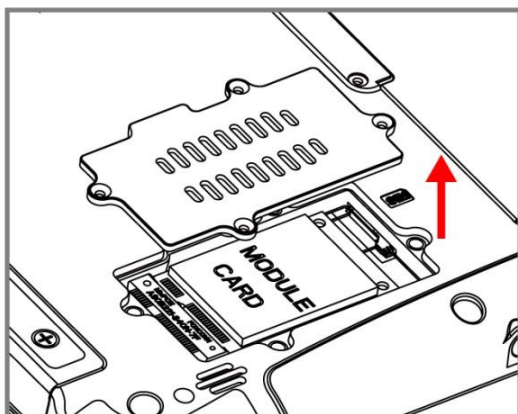
Service Windows

Screw: M2x5, 4 pc
Screwdriver: Philips Type , Size #0 , for
M2 screws, torque: 2.0 ± 0.5 kgf.cm

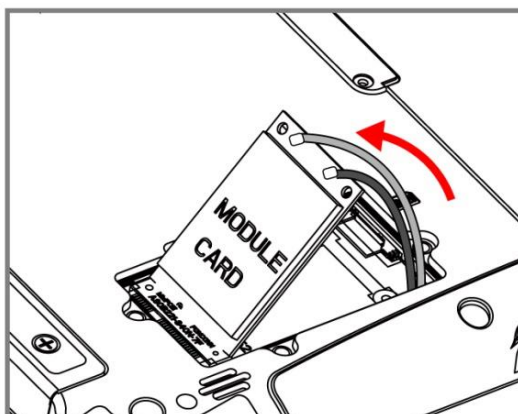
3G/ LTE Module

Screw: M2x3.5, 1 pc
Screwdriver: Philips Type , Size #0 , for
M2 screws, torque: 2.0 ± 0.5 kgf.cm

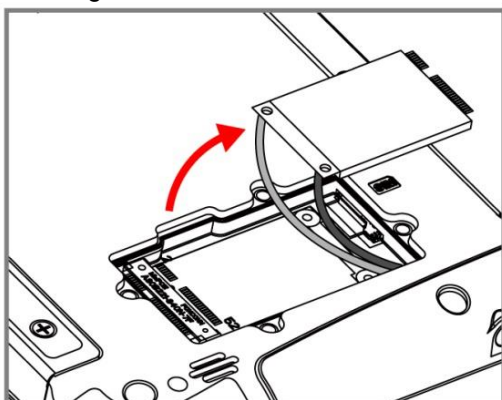
- ❶ Remove four screws and remove the service window.



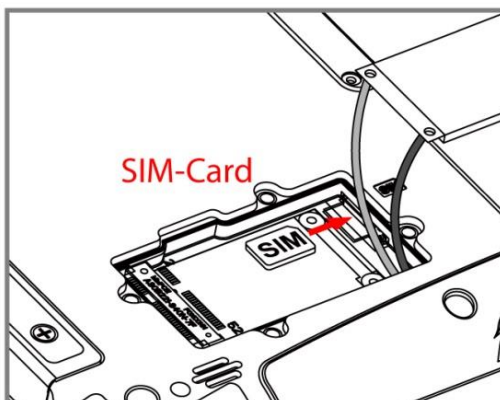
- ❷ Remove the one screw that secures the 3G/ LTE module. Carefully lift the module up. **Do not to damage the connected cables!**



- ❸ Carefully flip and move the 3G/ LTE module and to the right. **Do not disconnect cables!**

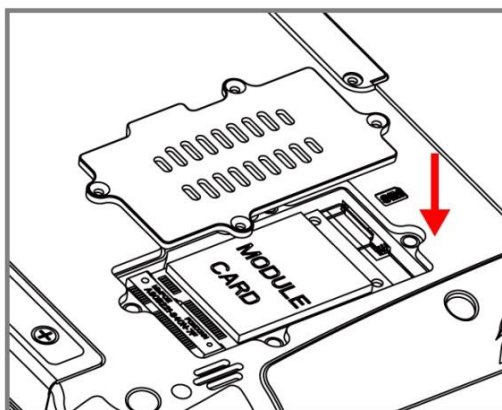
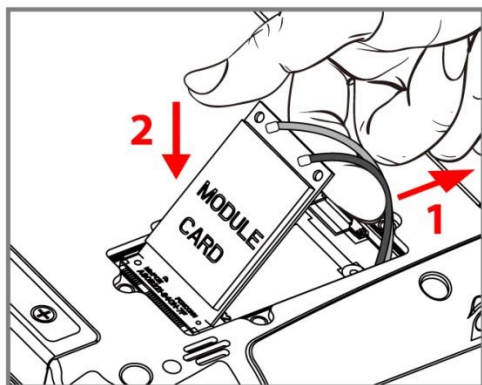


- ❹ Insert SIM-Card all the way in. **Chip/ contact facing down.**



- ❺ Use your hand to carefully pull the cable outside the module card. Re-insert the 3G/LTE module and fasten one screw. Accurately route the cables. **Do not bend cables! Do not pinch/ squeeze the cable!**

- ❻ Re-insert the service window and fasten with the four screws.




Caution When re-inserting 3G/LTE module, please pay attention to cable routing. Make sure the cable module does not get squeezed.

Attention Lors de la réinsertion du module 3G / LTE, veuillez faire attention à l'acheminement des câbles. Assurez-vous que le module de câble n'est pas écrasé.

4.4.2.2 Using Wireless WAN Feature

To connect to the network using wireless WAN:


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 **WWAN** icon:


| Item | Status Color | Description |
|----------------------|--------------|---------------------------|
| WWAN 3G/4G | Orange | WWAN (3G/4G) is enabled. |
| | White | WWAN (3G/4G) 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.

4.4.3 Using the GPS

To enable the GPS:


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** icon:


| Item | Status Color | Description |
|---|--------------|------------------|
|  GPS | 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.

4.4.4 Using the BT

To enable the BT:

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 **BT** icon:


| Item | Status Color | Description |
|--|--------------|-----------------|
|  BT | 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 onscreen prompt to continue the pair procedure and use the BT device.

4.4.5 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:

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

| Item | Status Color | Description |
|---|--------------|----------------------------|
|  Indicator | Orange | LED indicator is enabled. |
| | White | LED indicator is disabled. |

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

4.4.6 Using the Barcode Reader

The 2D/1D Barcode Reader is optional for M101S-EX 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.





Note:

Download the SDK from Winmate Download center [here](#).

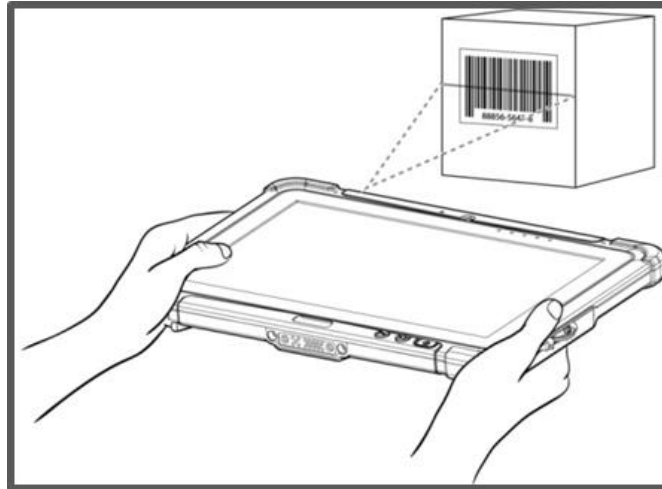
>> M101S-EX >> Development Kit or check the Driver CD which is shipped with the tablet.

To enable the Barcode Reader:

1. Open Hottab utility by pressing  (Menu) Button located on the front panel, or launching Hottab Utility application.
2. Tap on the **Device ON/OFF** button.
3. 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.

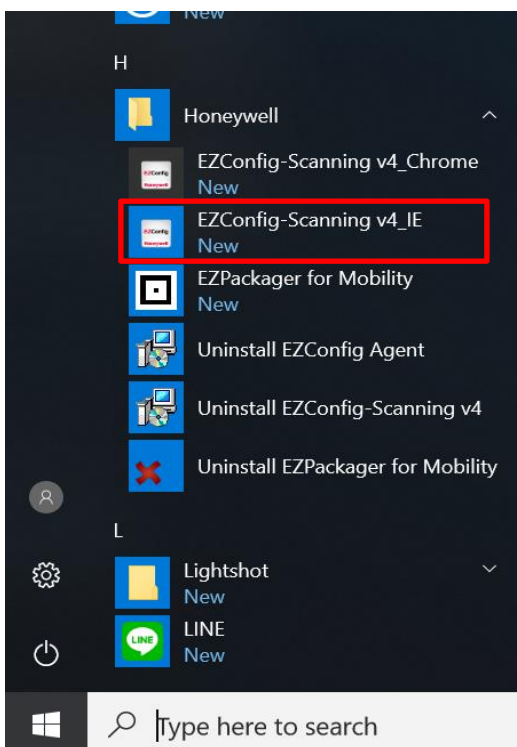


Tap **Disconnect** button to stop the connection with Barcode Reader.

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

4.4.6.1 Device Configuring and Setting

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



- 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 N660X).

Would you like to configure :

DISCONNECTED DEVICE

CONNECTED DEVICE

SERIAL DATA WINDOW



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 ×

4. Once Honeywell N660X 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

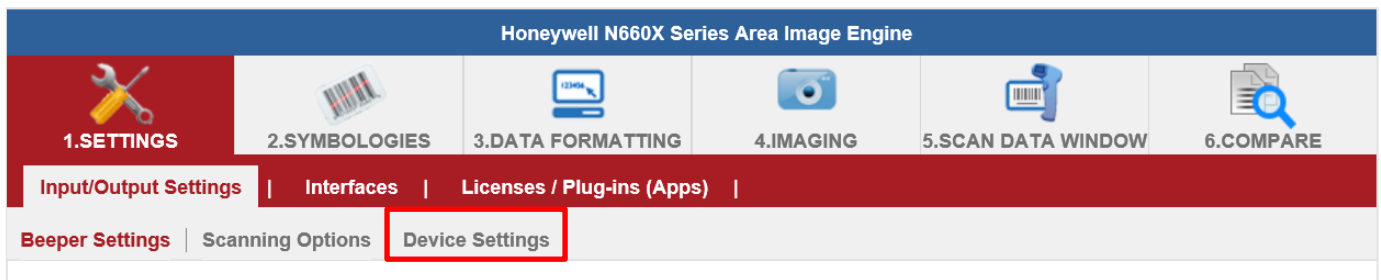
CONFIGURE DEVICE

UPDATE FIRMWARE

SCAN DATA WINDOW

4.4.6.2 Scanning mode Settings

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



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

Scanning Mode Modifiers

Scanning Mode Default: 0

Presentation LED Behavior After Decode

Presentation Sensitivity Range: 0-20 Default: 1

Presentation Mode Pre Aimer Delay **Off** ☐ **On** Default: 1

TRGMMF Default: 0

Trigger Pre Aimer Delay Range: 0-9999 Default: 0

TRGOTO 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 very 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 very 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. |

4.4.6.3 Setting the 1D/2D Barcode Scanner Symbolologies

The barcode scanner is shipped with 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 Psot | 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 |

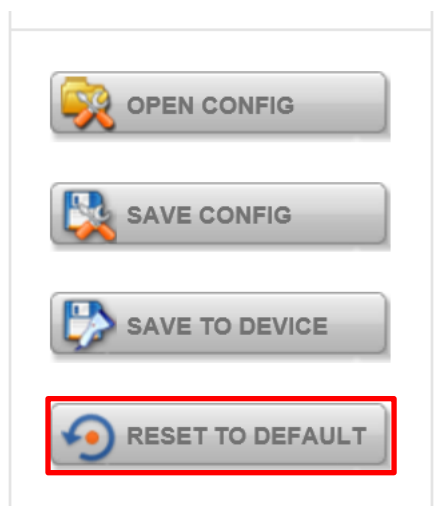
Changing default setting of symbologies or the advanced setting

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 advanced setting by its category. After setting, click on the “Save to Device” on the side bar.

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 setting to default.
 2. N660X could disconnect with system after clicking the reset to default button.
If the Disconnection happened please scan barcodes below in the following steps.
- Step 1. Frist 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 run **EZConfig-Scanning** again by following **4.4.6.1 Device Configuring and Setting**

4.4.6.4 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.SYMBOLOLOGIES **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


| <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 |

- For checking the functionality of Prefix/Suffix, please click on “**Scan Data Window**” icon on the top. Then scan a barcode to verify if the Prefix/Suffix appear correctly.

4.4.7 Using the HF RFID Reader


The HF RFID Reader is optional for M101S-EX Tablet PC and is not re-workable by the end user. To use this feature, please make sure the tablet PC is built-in HF RFID reader before use, or contact our sales contact window for more details.

To enable the HF RFID Reader feature:

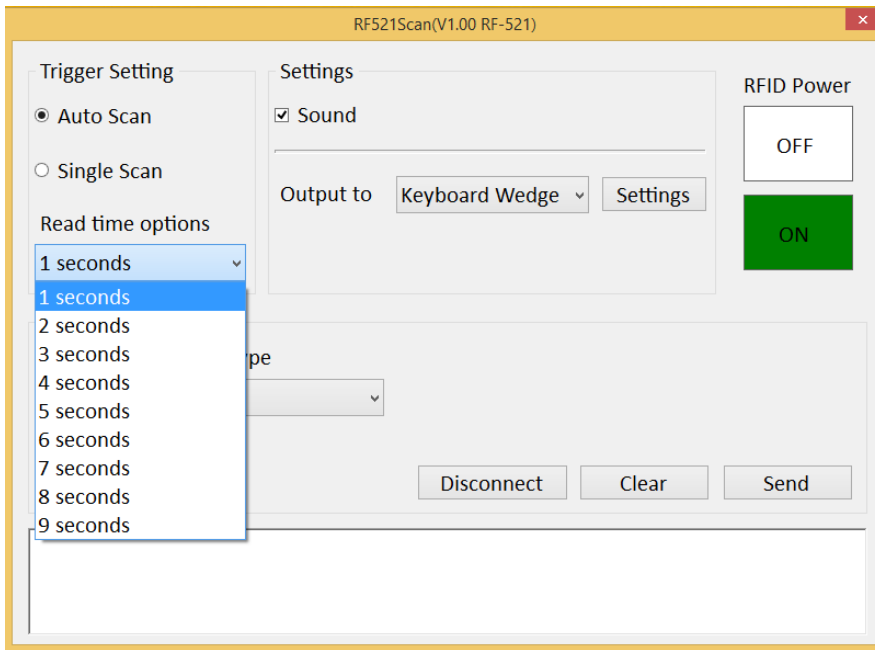
- Open the Hottab utility by press the  (Menu) Button located on the front panel, OR launching the Hottab Utility application.
- Tap on the **Device ON/OFF** button.
- Tap on **RFID**, and the setting utility will show up as below:

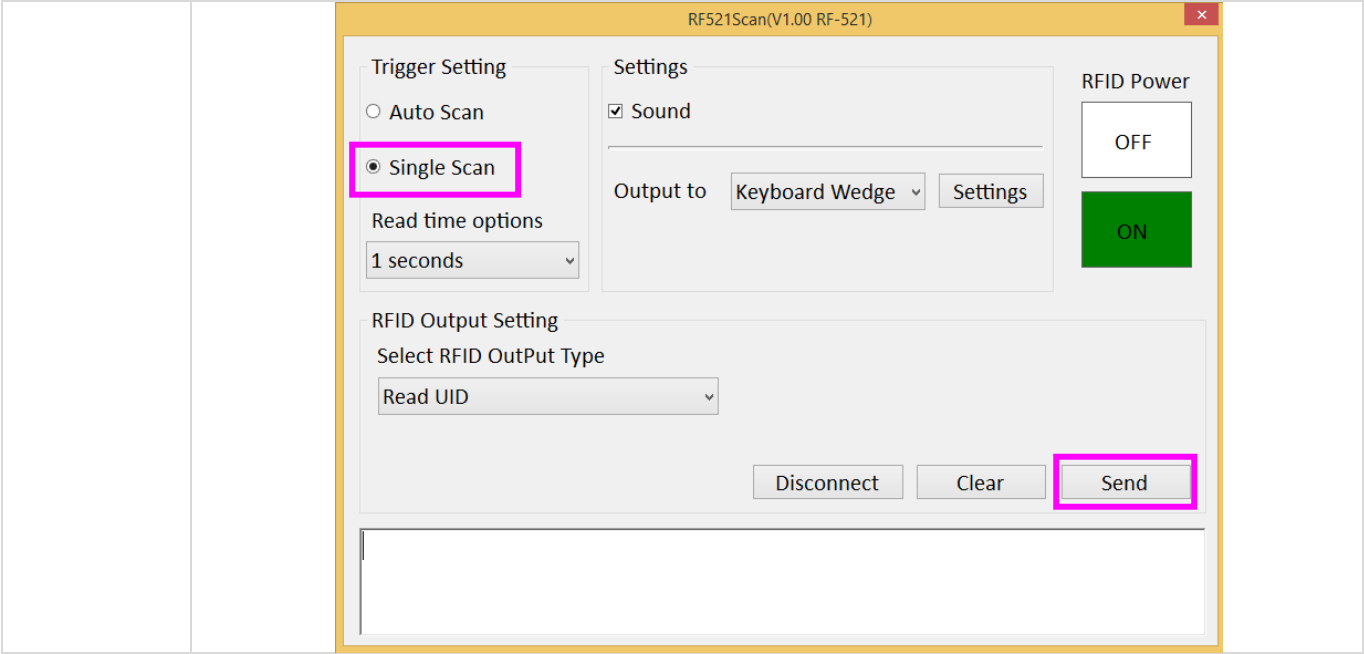
- Tap on the **ON** button.

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.

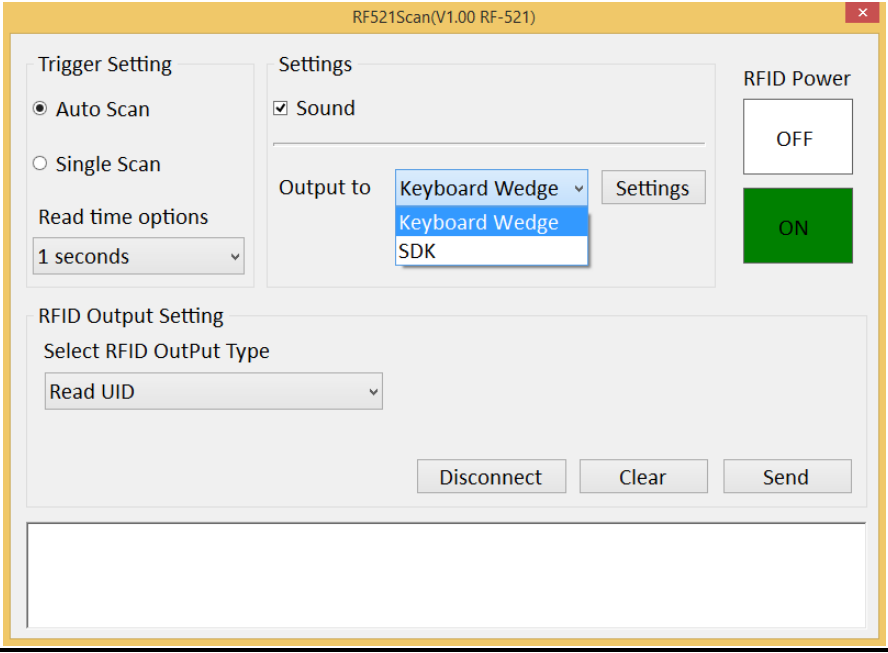
| Item | Status Color | Description |
|---|--------------|-----------------------------|
|  RFID | Orange | HF RFID Reader is enabled. |
| | White | HF RFID Reader is disabled. |

4.4.7.1 RFID Trigger Setting

| Item | Description |
|-------------|--|
| Auto Scan | <p>The default setting for 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"> When the RFID tag is detected from RFID antenna, the data will be read automatically. 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 Single Scan. Under this setting, the RFID Reader will be triggered only when user click on “Send”.</p> |



4.4.7.2 Settings

| Item | Description |
|-----------|--|
| Sound | The Sound check box defines whether a beep sound will come with the data scanning. |
| Output to | <div> <p>This setting defines the output type of the scanned data. Two options are available:</p>  <p>Keyboard Wedge</p> <p>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, or user can also open other utility, such as Office Word or Notepad files, for data input.</p> </div> |

RF521Scan(V1.00 RF-521)

Trigger Setting

☒ Auto Scan

☐ Single Scan

Read time options

1 seconds

Settings

☒ Sound

Output to

Keyboard Wedge

Settings

RFID Power

OFF

ON

RFID Output Setting

Select RFID OutPut Type

Read UID

Disconnect

Clear

Send

Demo Area

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 defines to append an “Enter” which is followed by the characters. |
| Append TAB | The check box user can defines 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. |

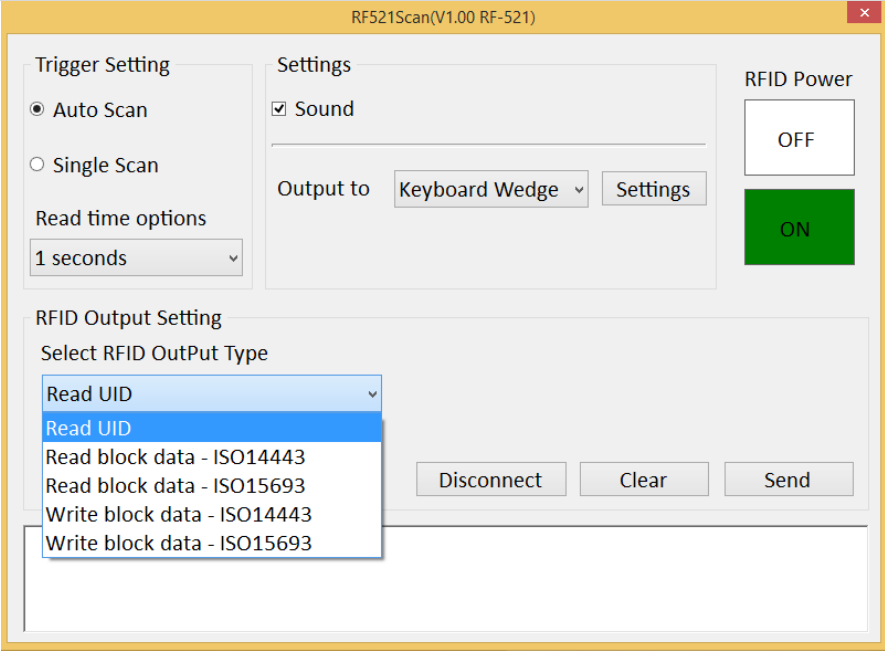
| | | |
|------------------|--|---|
| | |  <p>The dialog box titled 'Regular Expression Presets' contains three sections. The first section is 'All characters' with a 'Use this rule' button. The second section is 'Keep first' followed by a text input field and the word 'characters', with a 'Use this rule' button. The third section is 'Keep last' followed by a text input field and the word 'characters', with a 'Use this rule' button. At the bottom is a 'Close' button.</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 set up and back to default mode. |

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 website >> M101P >> Development Kit or check the Driver CD which is shipped with the tablet.
<http://www.winmate.com/DownCenter/DownLoadCenter.asp?DownType=220nt=>

4.4.7.3 RFID Output Setting

| Item | Description |
|-------------------------|---|
| Select RFID Output Type | 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. |


| | |
|------------|---|
| |  |
| Disconnect | <p>User can tap on the Disconnect button to stop the connection with 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> |


4.4.8 Turn on/off the GPS External Antenna

The vehicle dock of M101S-EX Tablet PC supports external GPS antenna through standard SMA connector. To work with external GPS antenna, please make sure the tablet PC is well installed to vehicle dock, and the vehicle dock has connected with external GPS antenna.

When working with vehicle dock connecting to 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 |
|--|--------------|--|
|  GPS Ext. Antenna | 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).

4.4.9 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 |
|--|--------------|---------------------------|
|  Light Sensor | Orange | Light Sensor is enabled. |
| | White | Light Sensor is disabled. |

4.4.10 Changing Touchscreen Modes

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


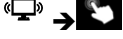
| Mode | Description |
|--|--|
|  Hand/Rain (Default) | In <i>Hand/Rain</i> mode the touchscreen rejects false inputs from liquid drops. When the liquid is removed, the touchscreen accepts touch inputs from bare fingertips. <i>Supports input by:</i> <ul style="list-style-type: none"> • <i>Rubber tip passive stylus</i> • <i>Bare fingertips</i> |
|  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"> • <i>Fine-tip passive stylus with palm rejection</i> • <i>Rubber tip passive stylus</i> • <i>Bare fingertips</i> |
|  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"> • <i>Glove</i> • <i>Rubber tip passive stylus</i> • <i>Bare fingertips</i> |

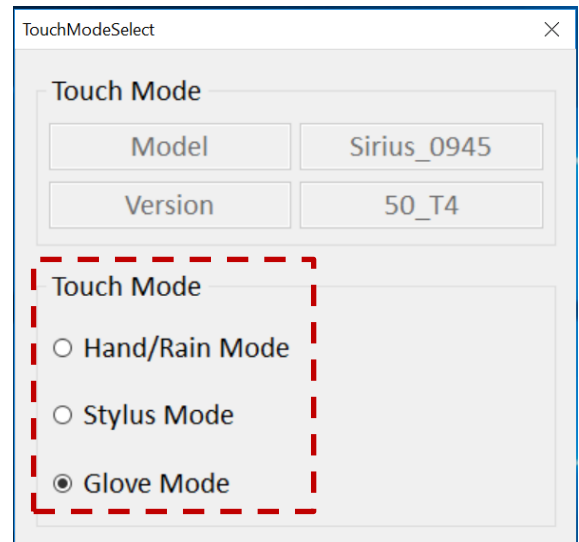
To change touch mode:

- (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.  →  → 

4.4.10.1 Switch via Built-in HotTab Utility


To switch touchscreen mode via the HotTab:

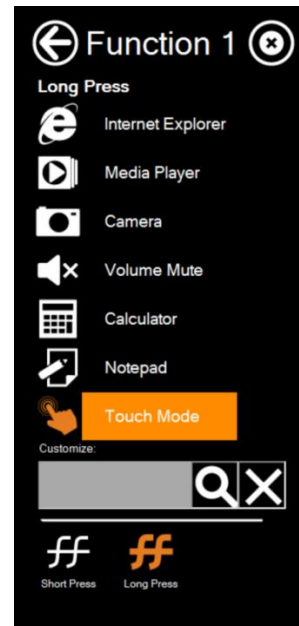
1. Open HotTab utility by pressing  (Menu) Button located on the front panel, OR launching HotTab Utility application.
2. Choose “**Device ON/OFF**” and then click on “**Touch Set**” icon .
3. Under the “**Touch Mode**”, select the desired touch modes by tapping on the radio button.
4. Here’s also additional Touch related setting to switch the touchscreen input between mouse mode with 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)



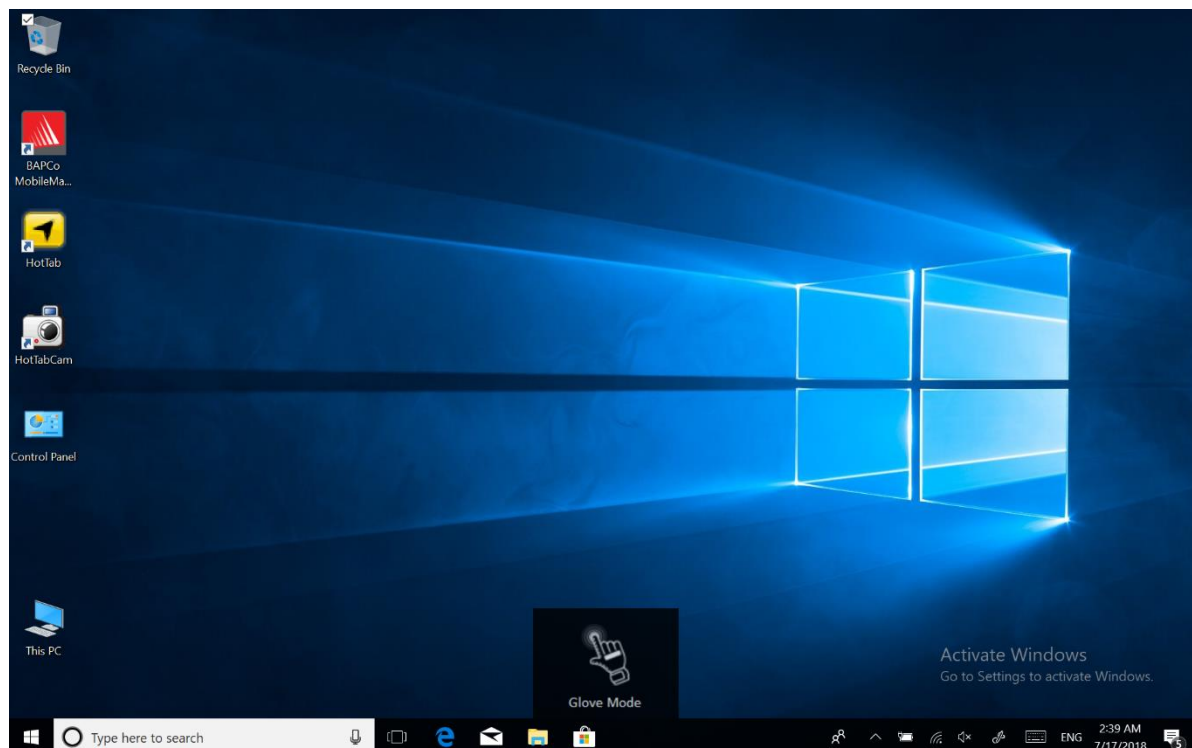
4.4.10.2 Switch via Programmable Function Buttons:

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 **F1** icon.
4. Tap on the **Long Press** icon.
5. Change the Long Press function to “**Touch Mode**” as shown below:

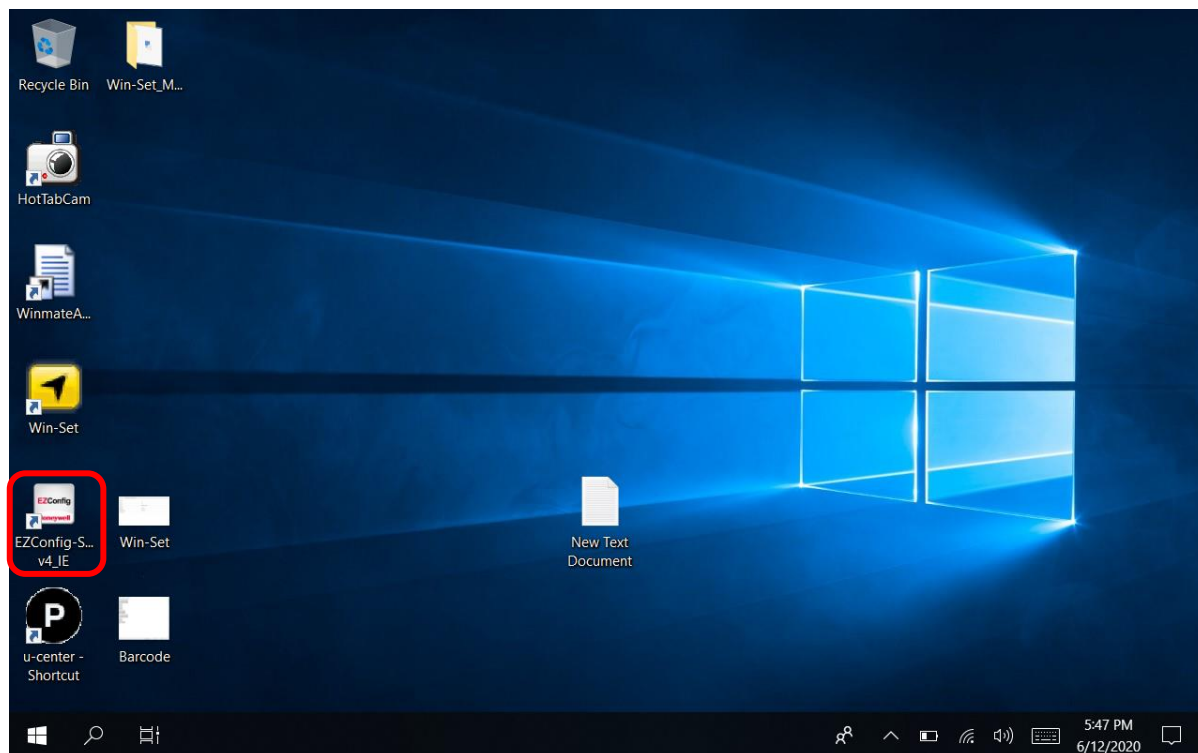


Once the touchscreen mode switching is set to the programmable function button, **Long Press** on “**F1**” function button to cycle through the different touchscreen modes. When touchscreen mode is switched, an icon will temporarily overlay on the lower center of the screen to indicate current touchscreen mode:

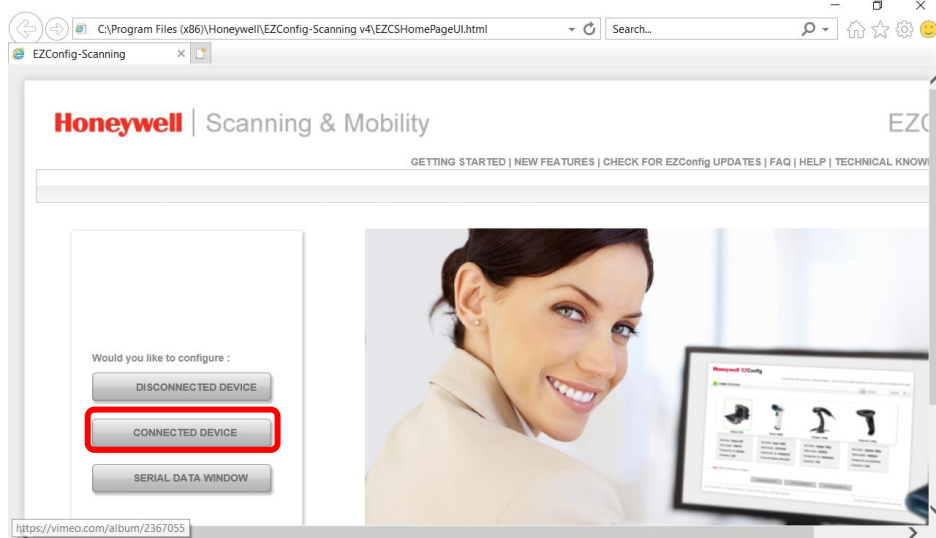


4.4.11 Adjusting LED Brightness

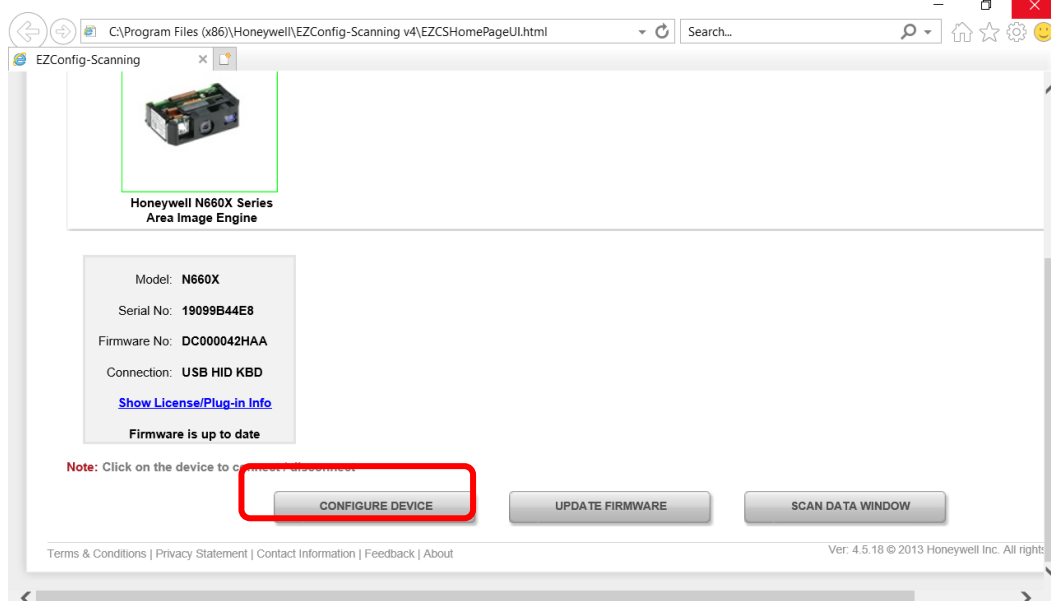
1. Open EZConfig-Scanning V4_IE Icon



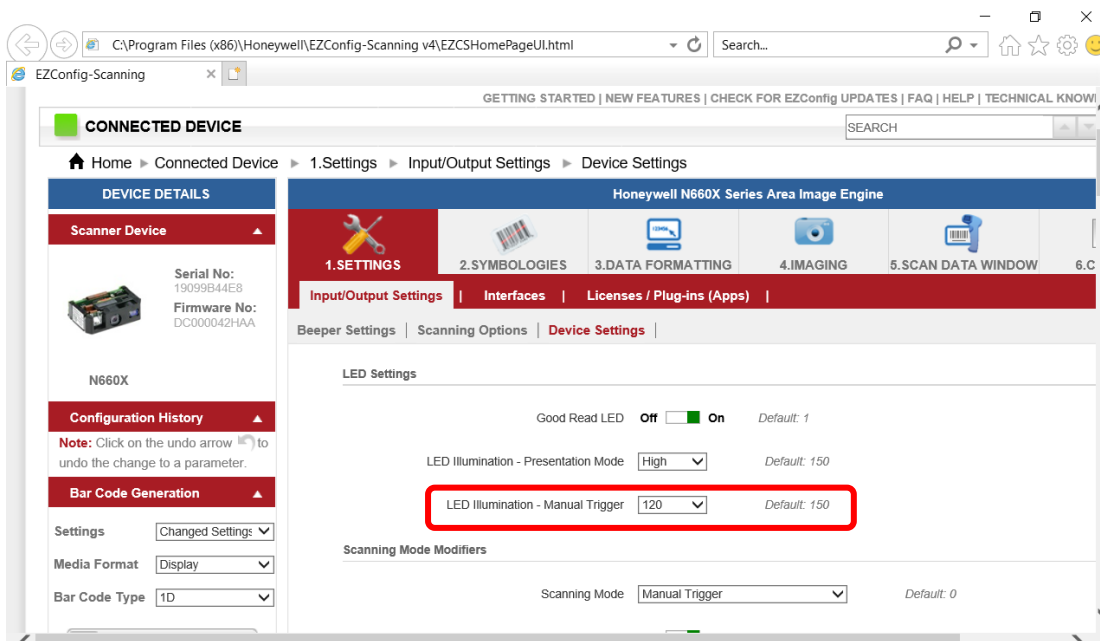
2. Open Connected Device



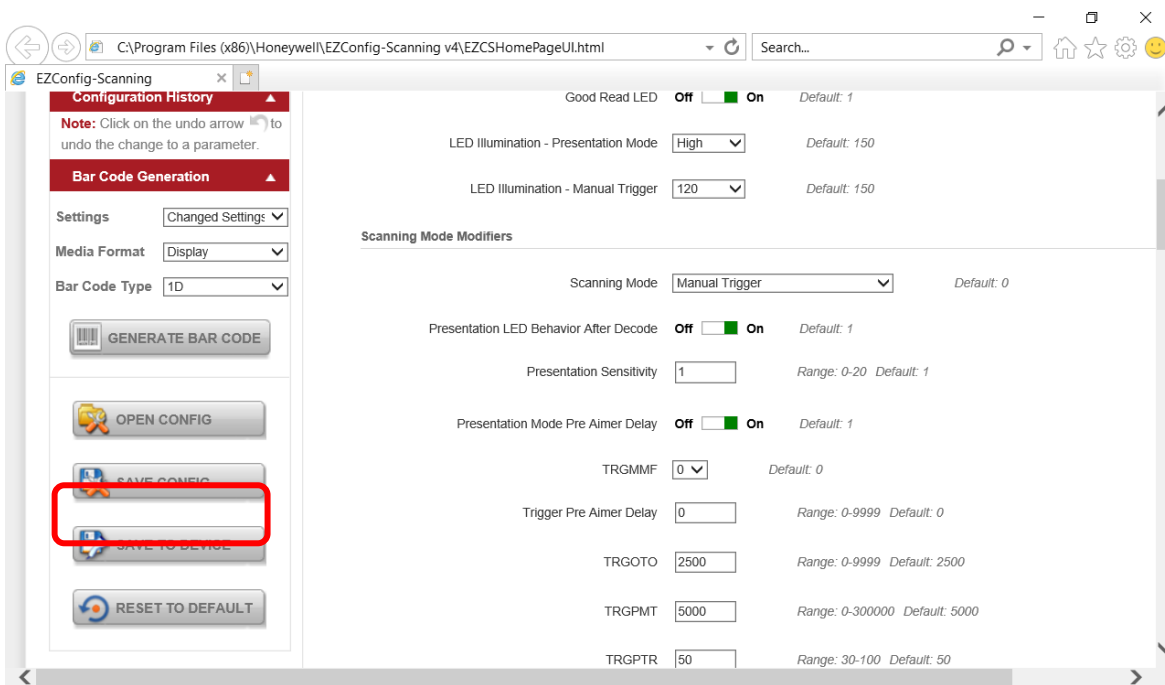
3. Open Connected Device



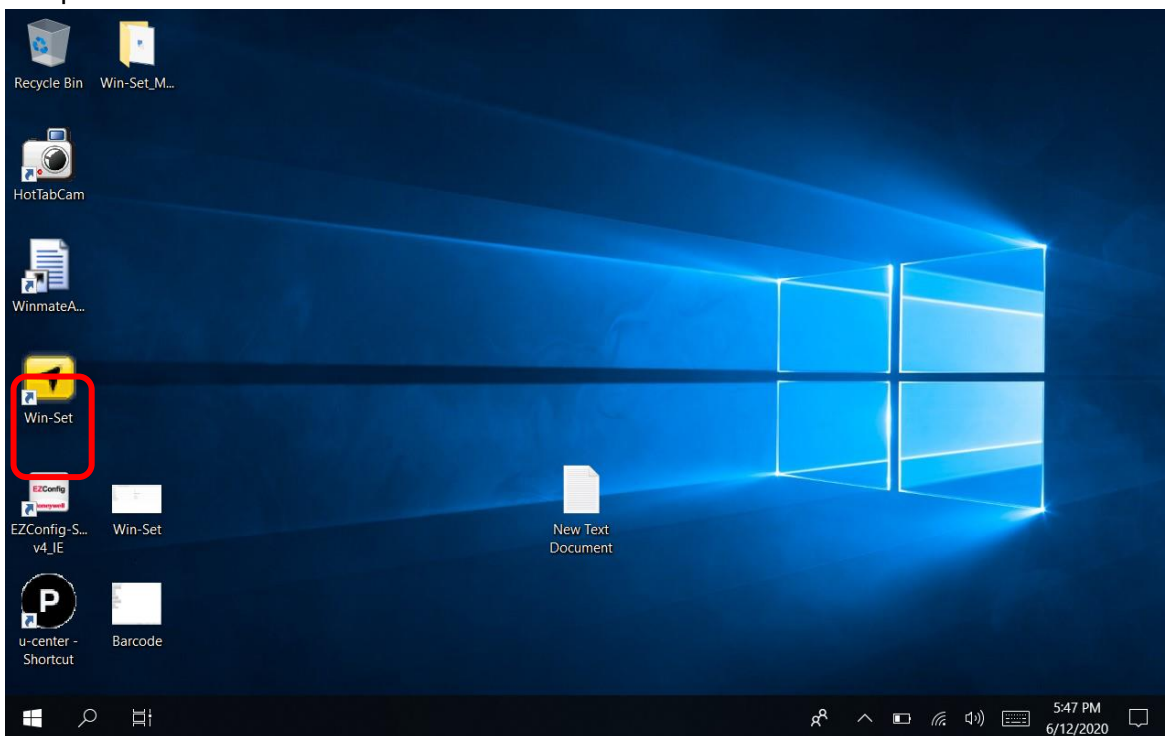
4. Open Settings → Device Settings → LED illumination - Manual Trigger Setting change 120



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 | |

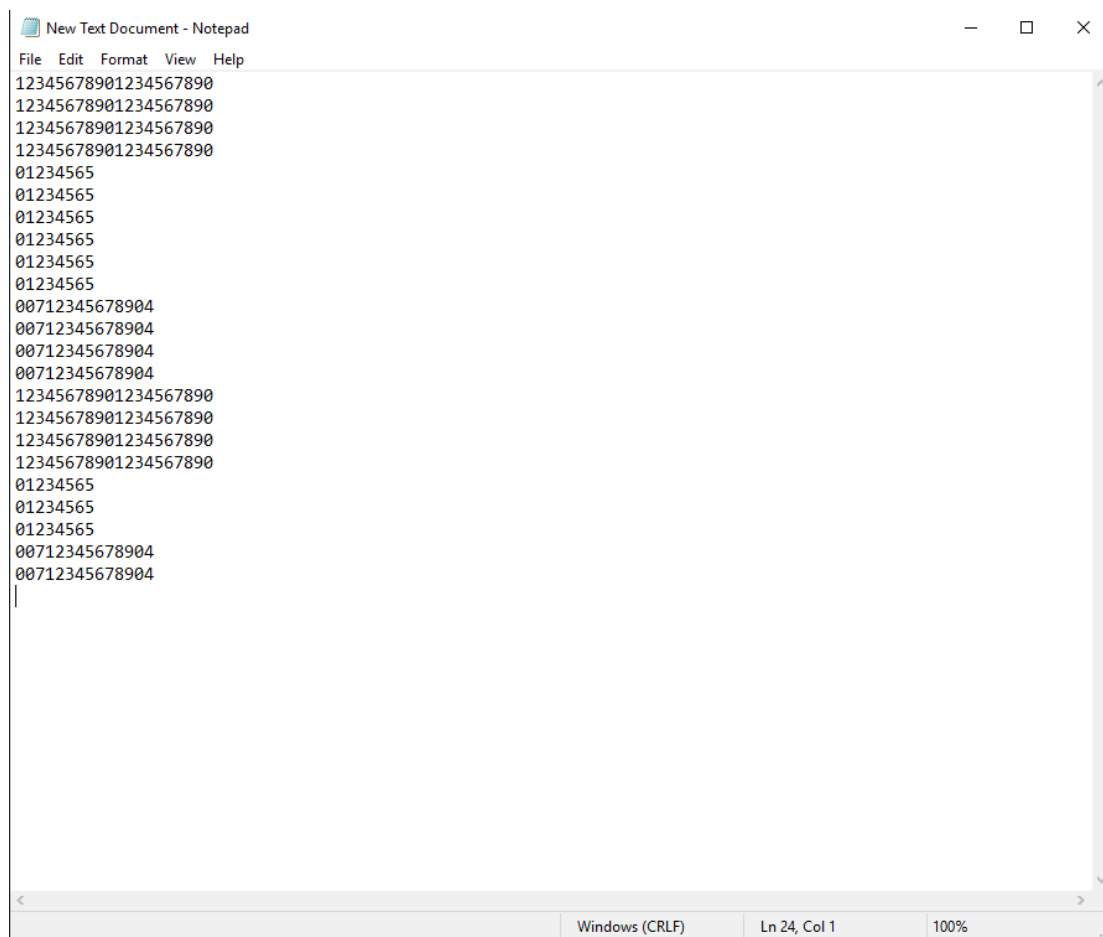
8. Barcode Scanner Wedge turns On

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

Option Device

| | | |
|-----------------------|----------|-----|
| Barcode Scanner Wedge | ON | OFF |
| RFID Scanner Wedge | Settings | |

9. Scanner Barcode



Chapter 5: Frequently Used Settings

5.1 Screen Resolution Scaling and Setting

The M101's 1920 x 1200 high resolution display 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 1920 x 1200. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.

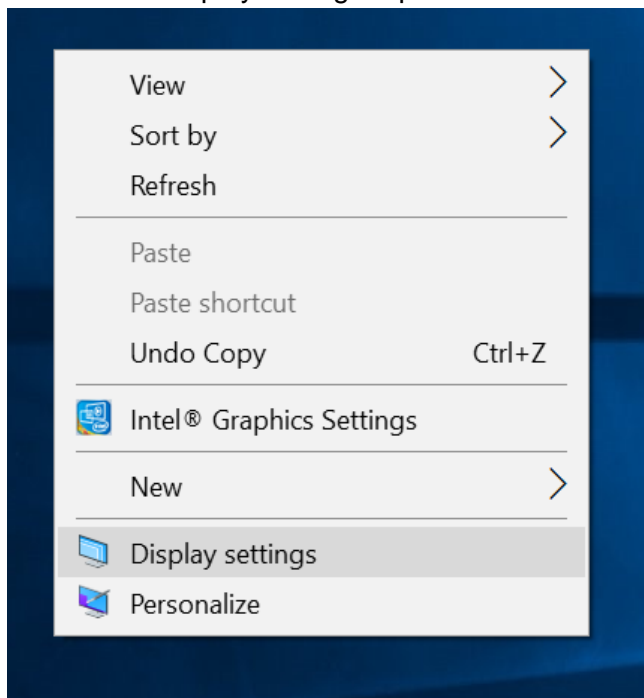


Note: The Tablet computer is shipped with display scaling set at **Larger - 150%**. We recommend the users set the scaling to this setting for optimal text and image viewing. Before proceeding to change the scaling option, make sure any opened document is saved and close, and all running applications 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.

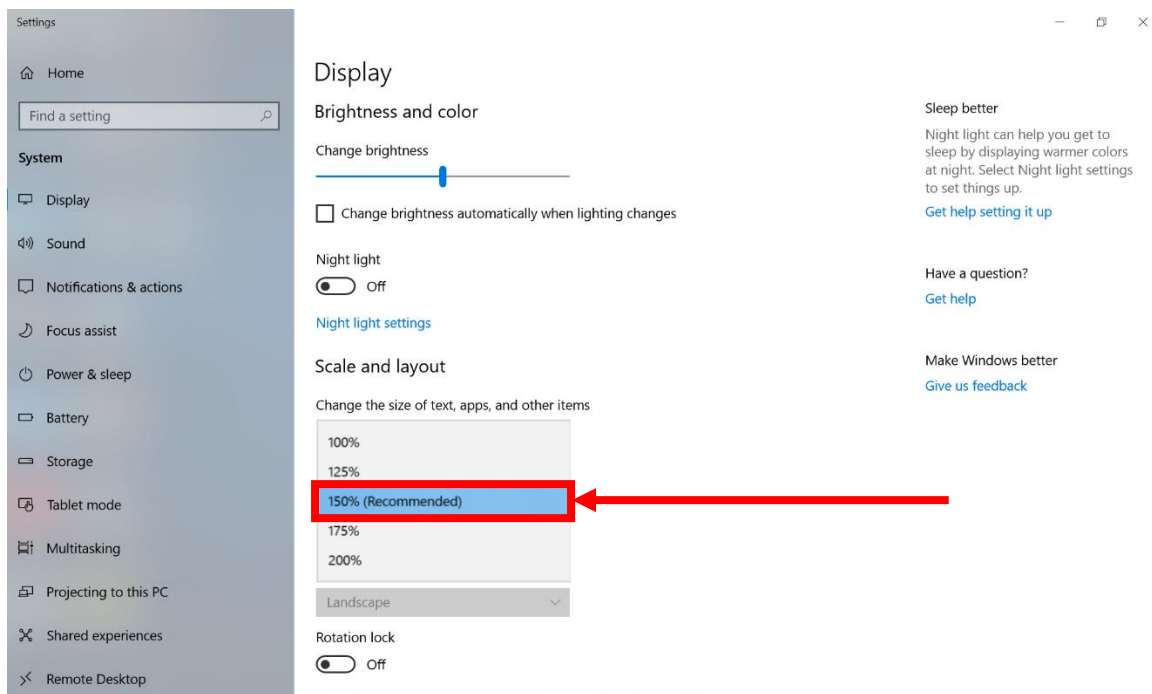
5.1.1 Changing Display Scaling (Recommended)

Perform the following to change 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:



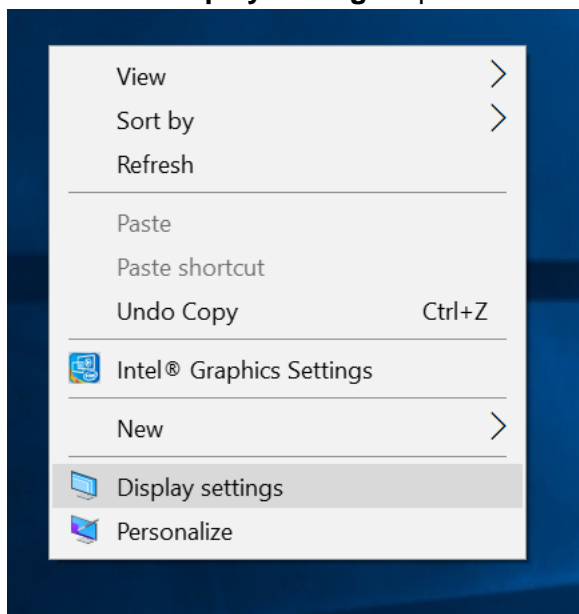
2. A "Display" Window will show up. Click on the dropdown option under the "**Scale and layout**" section and change the scaling option to "**150% (Recommended)**" or any other desired display scaling.



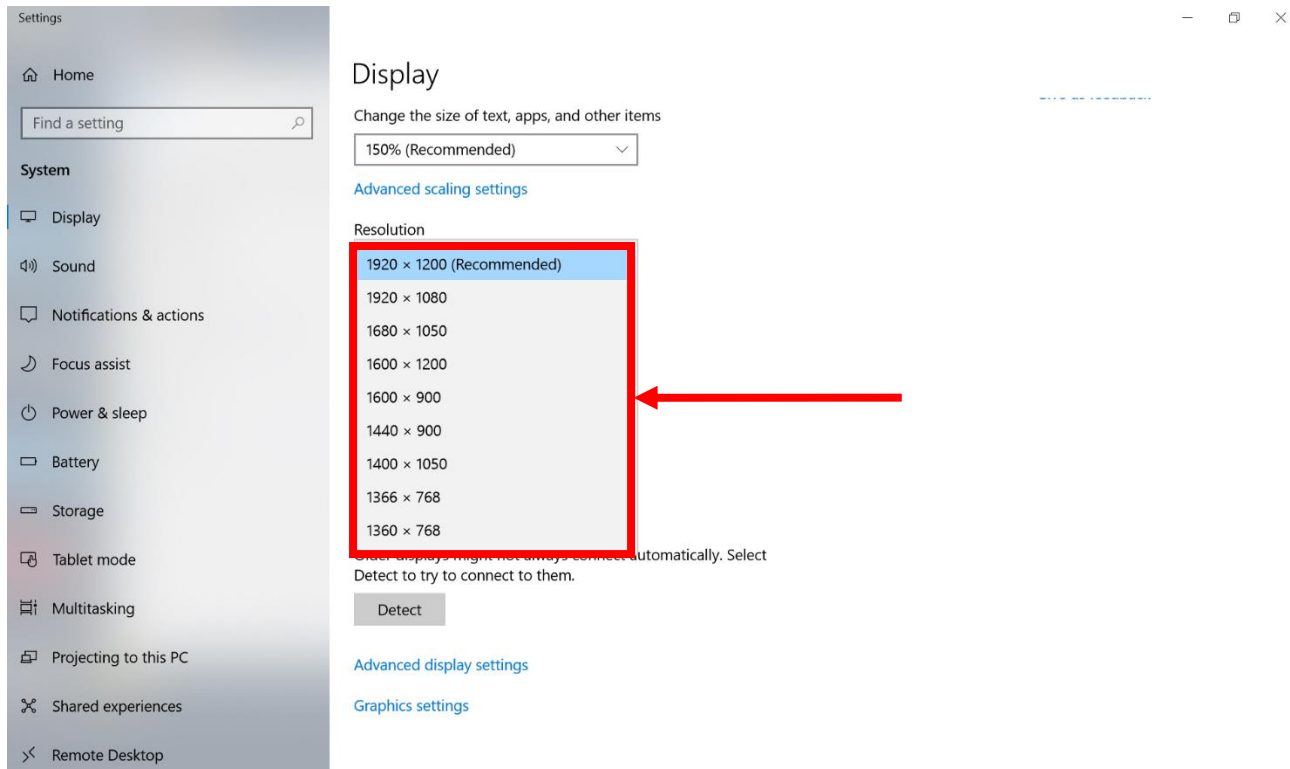
5.1.2 Changing Screen Resolution

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:



- Click on the dropdown option next to “**Resolution**” and select the desired resolution by tapping on the scale:



- Hit “**Apply**”. A prompt “**Display Settings**” prompt will show up to ask the user if the applied resolution is usable.
- 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.
- The user may now use the device with the new resolution setting.

5.2 Replacing Battery

The M101S-EX Tablet supports hot-swap, meaning the tablet doesn't need to be powered off to replace the main battery. To support hotswap, there is a backup battery inside the tablet that is charged together with the main battery. This battery cannot be removed, and requires adequate power for main battery hot swapping. When the backup battery is fully charged, the tablet can sustain up to 5 minutes of runtime for battery hot-swapping.

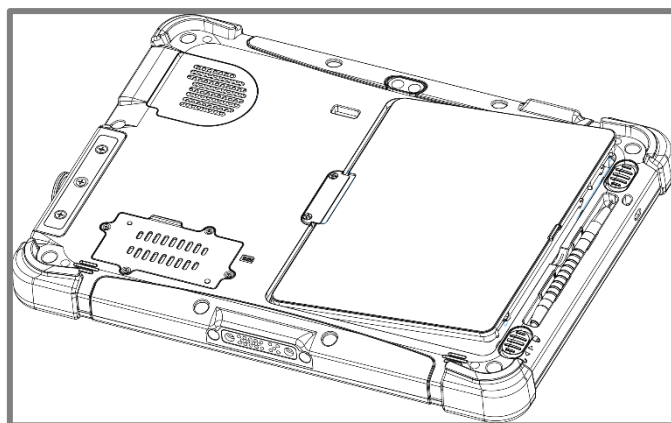
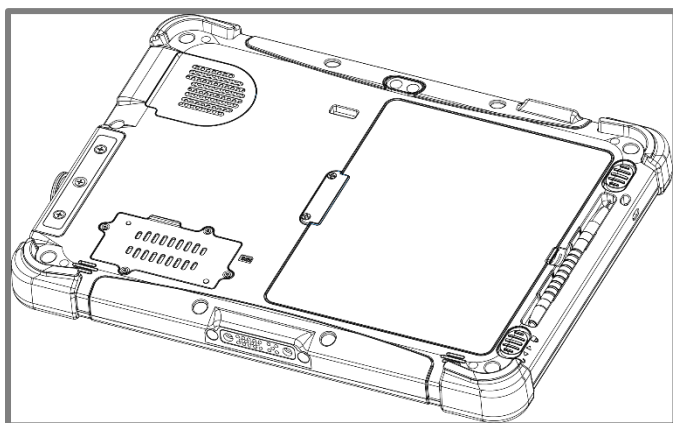
Perform the following to hot swap the batteries:

1. Power on the tablet, open Hottab 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”, you can remove the main battery.
4. Insert a new fully charged battery into the battery compartment.
5. Pen Hottab to check Main battery level. If the battery level is displayed incorrect, check if the new removable battery is inserted properly.
6. If the battery level displayed 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.



5.3 Using Recovery Wizard to Restore Computer

M101S-EX 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 M101S-EX 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:

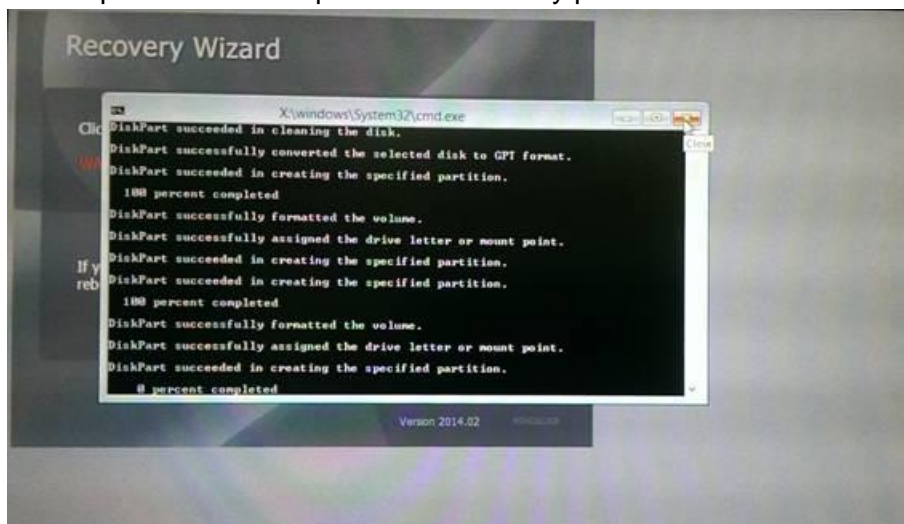
1. Plug-in the AC adapter to the tablet computer. Make sure the tablet computer stays plugged in to power source during the recovery process.
2. Power on the tablet computer, and when the boot screen shows up, press the **Fn1** button (Recovery Key) on the front bezel OR press **F6** when using an external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



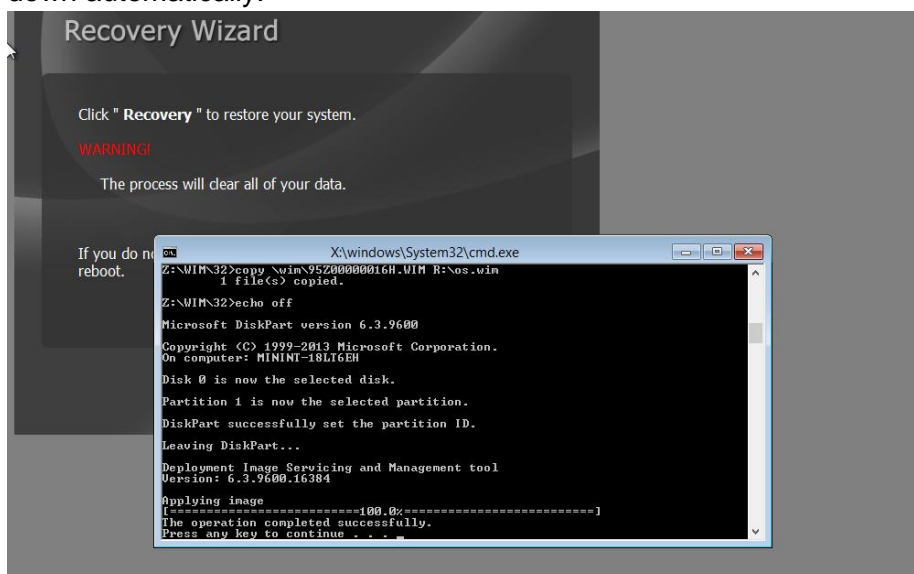
4. A warning message about data loss will show up. Make sure data is backed up before recovery, and click on "Yes" to continue.



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

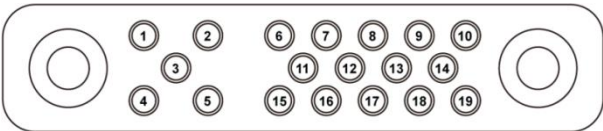


- After recovery is completed, please press any key to continue, and the tablet computer will shut down automatically.



5.4 Docking Connector Pin Definition

M101S-EX tablet computer supports one 19-pin docking connector at the bottom side. The pin definition is listed as 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 | | |

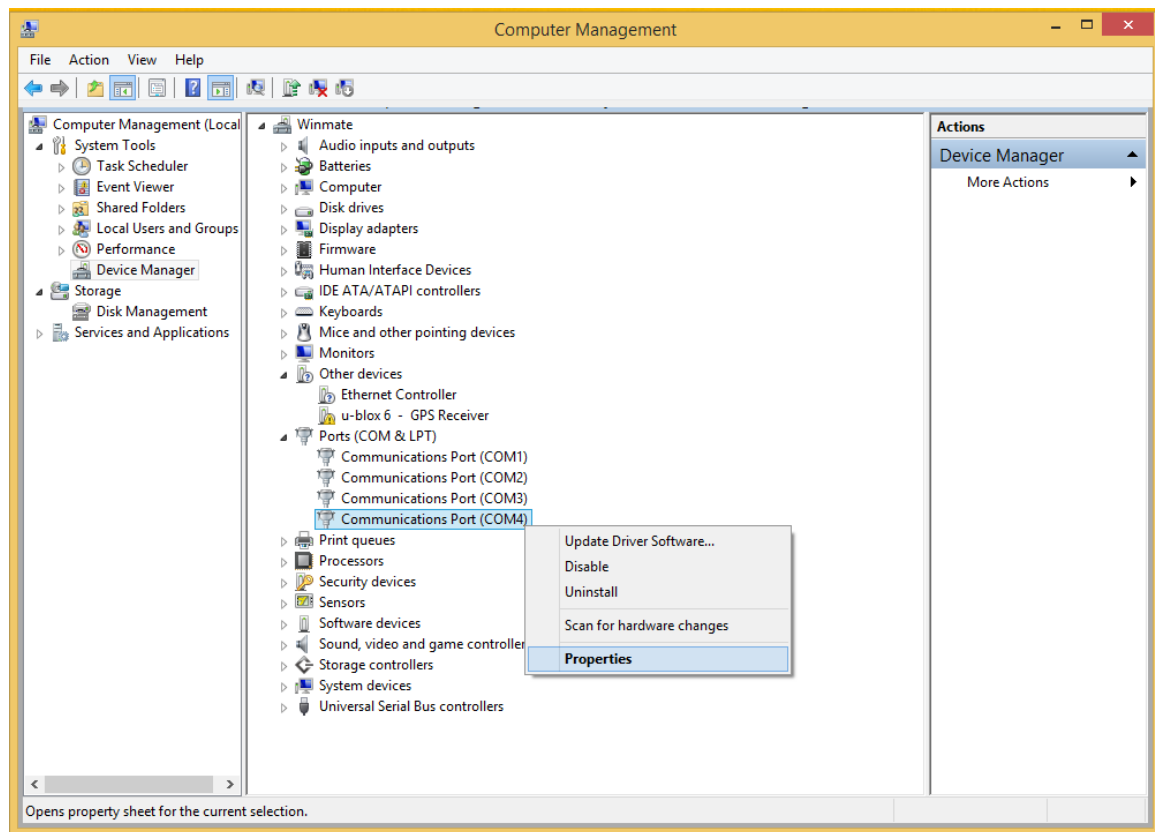
5.5 COM Port Definition

M101S-EX 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.

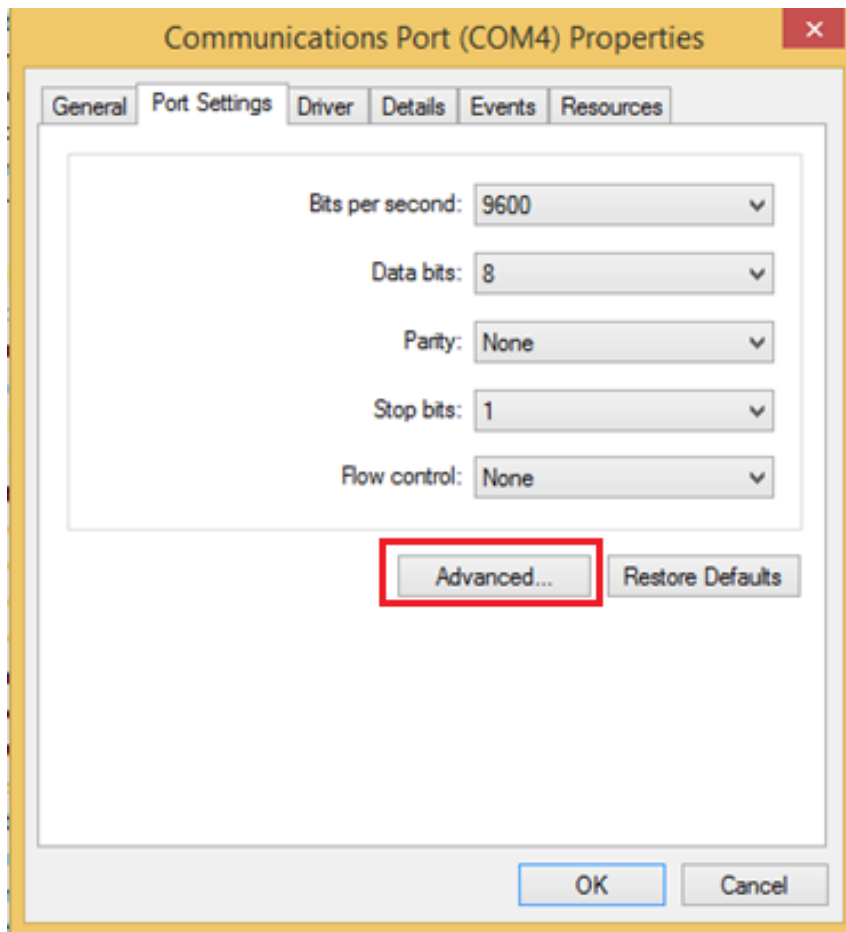
| COM Port | Device |
|----------|-----------------------------|
| COM 1 | Reserved |
| COM 2 | Reserved |
| COM 3 | HF RFID (optional) |
| COM 4 | BT Auto Pairing |
| COM 9 | GPS |
| COM 11 | RS232 at Docking (optional) |

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

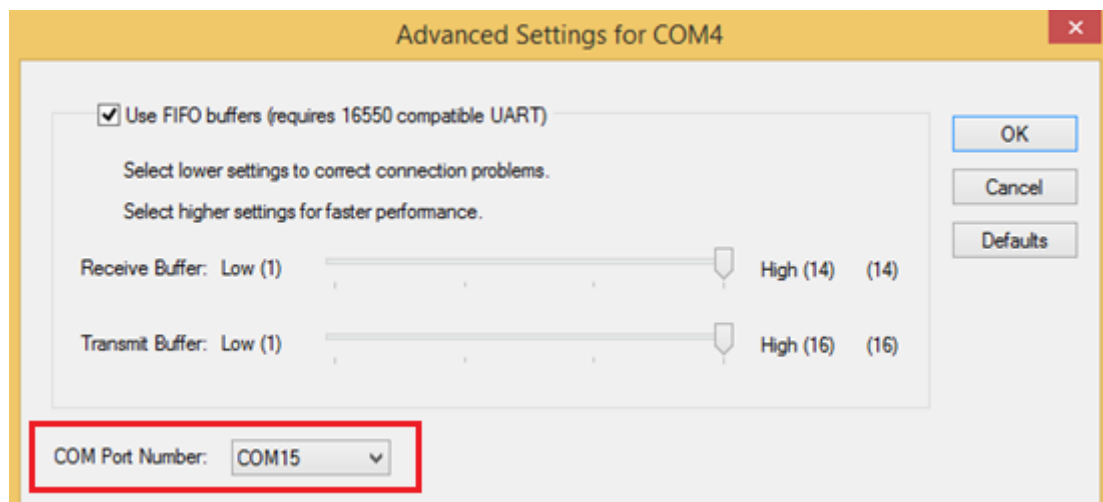
1. Go to "Device Manager", right click on the COM number need to be changed, and tap on "Properties" to open the setting page.



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



3. Tap on the dropdown list and choose the correct COM Port 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.

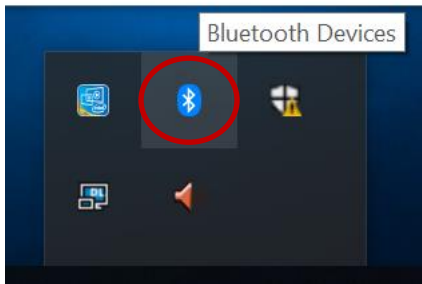
5.6 Pairing with a Wireless BT Barcode Scanner

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.

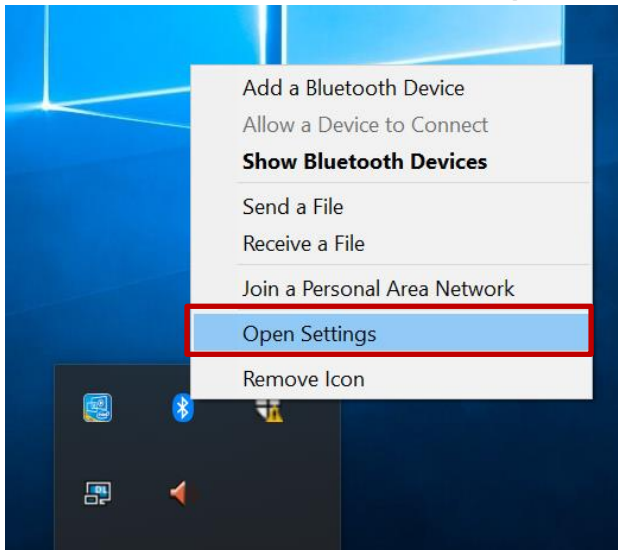
5.6.1 Setup Computer for BT Pairing

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

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

Bluetooth & other devices


+ Add Bluetooth or other device


Bluetooth

☒ On

Now discoverable as "DESKTOP-RGO2EAR"

Mouse, keyboard, & pen


 eGalaxTouch EXC3160-0945-07.00.00.00


 USB Optical Mouse

Other devices

 DESKTOP-V6ETPDF
Paired

 Intel(R) Wireless Bluetooth(R)

 R7000P (Gateway)
Not connected

 ST_SENSOR_HUB

Turn on Bluetooth even faster

To turn on Bluetooth without opening Settings, open action center, and then select the Bluetooth icon. Do the same to turn it off when you want.

[Get more info about Bluetooth](#)

Related settings

[Devices and printers](#)

[Sound settings](#)

[Display settings](#)

[More Bluetooth options](#)

[Send or receive files via Bluetooth](#)

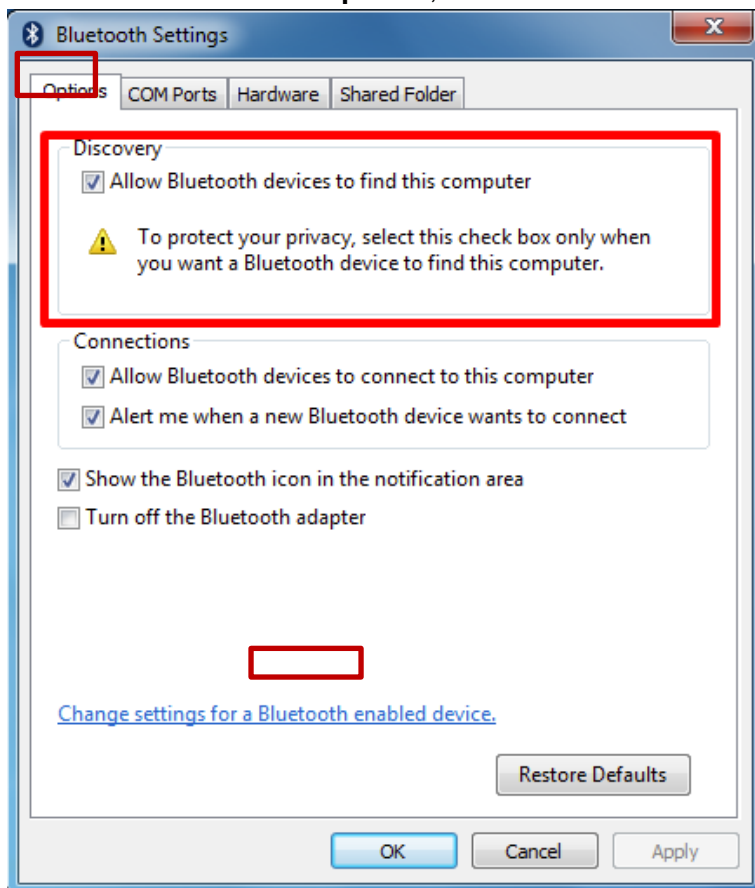
Have a question?

[Get help](#)

Make Windows better

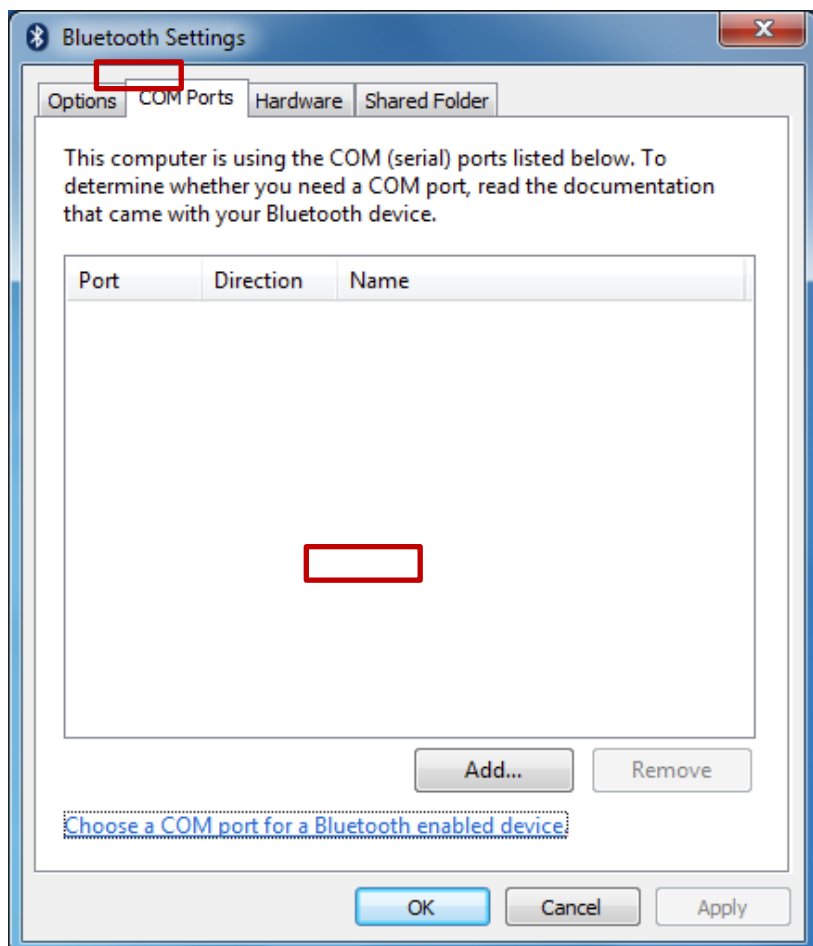
[Give us feedback](#)

- Go to **"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:

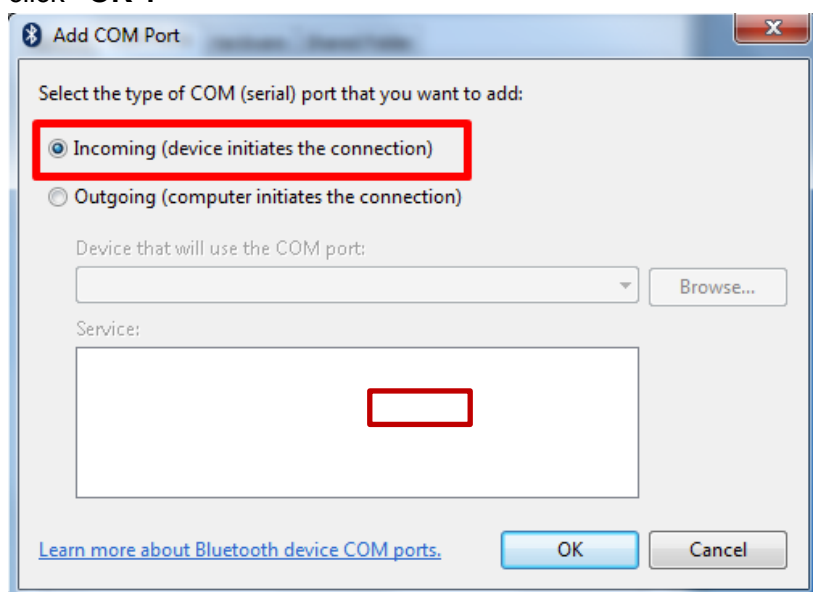


Click **OK** to continue.

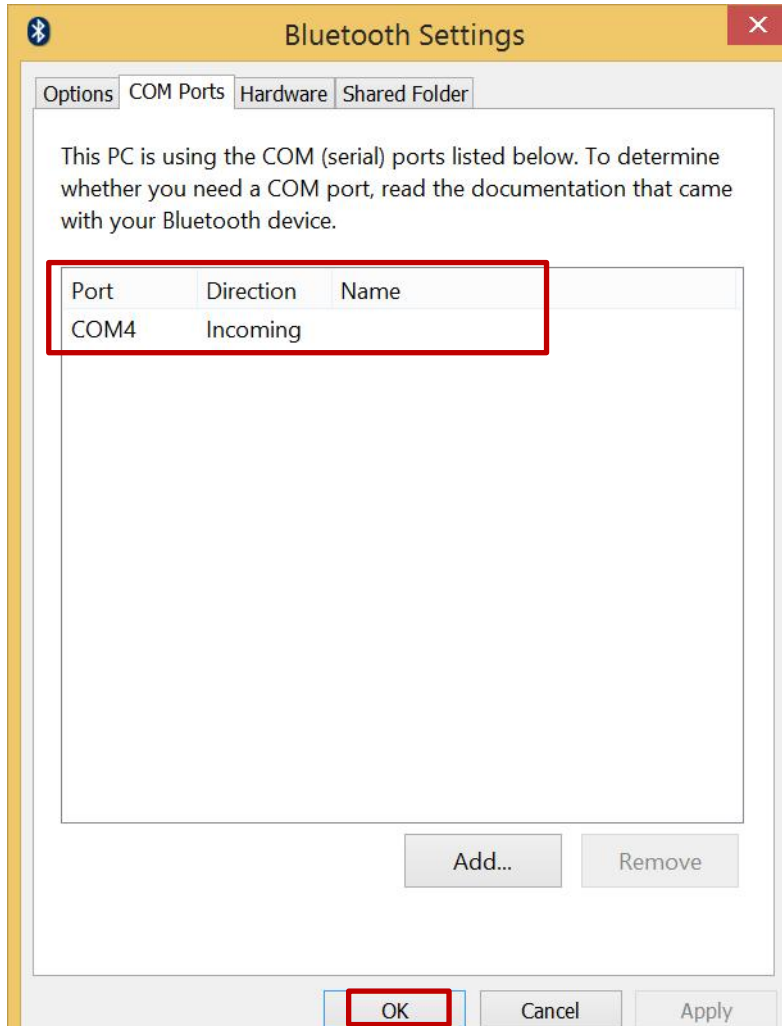
5. In the **BT Settings** menu, go to “**COM Ports**” tab. COM port has to be setup for the wireless BT Barcode Scanner to communicate via the BT Serial Port Profile. Click on the “**Add...**” button.



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 that is used 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 pairing process to start

5.6.2 Set up the Barcode Scanner for BT Pairing




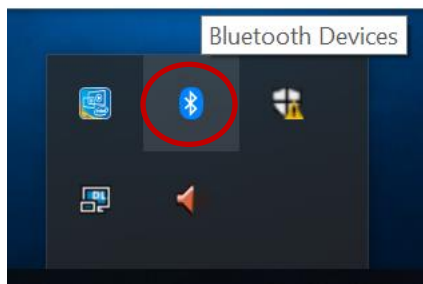
Important: The wireless BT Barcode Scanner has to be configured as BT Serial Port Profile Master device to establish connection via BT MAC address barcode label. For a more detailed instruction, please refer to the User Guide for the wireless BT Barcode Scanner you are using for pairing.

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

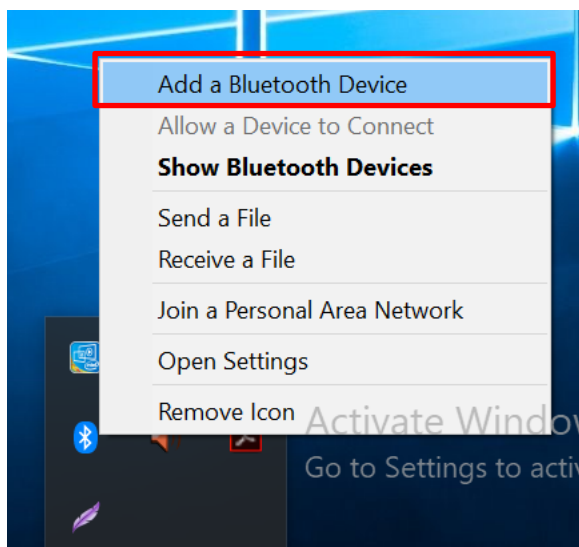
5.6.3 Perform BT Pairing

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

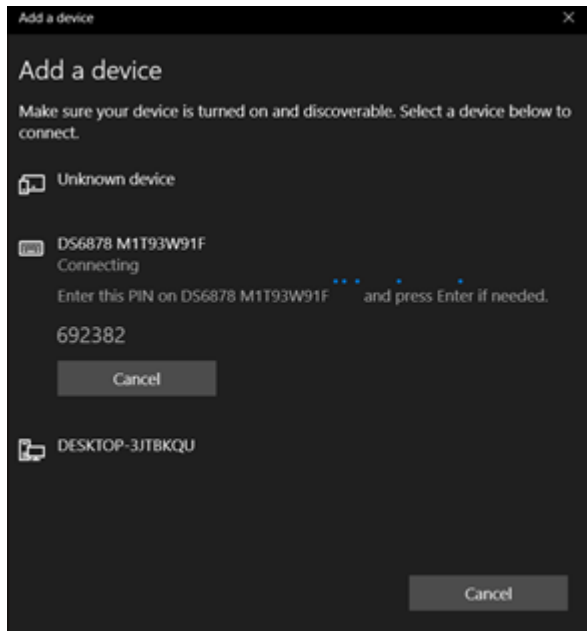
1. Open a program that is used for pairing.
2. Perform scanning procedures. A BT notification window pop-up on the right hand side of the desktop. **Left click** on the mouse to enter Add a device menu.
3. Locate the **BT** icon  in the Notification Area.



4. Click **Add BT Device**.

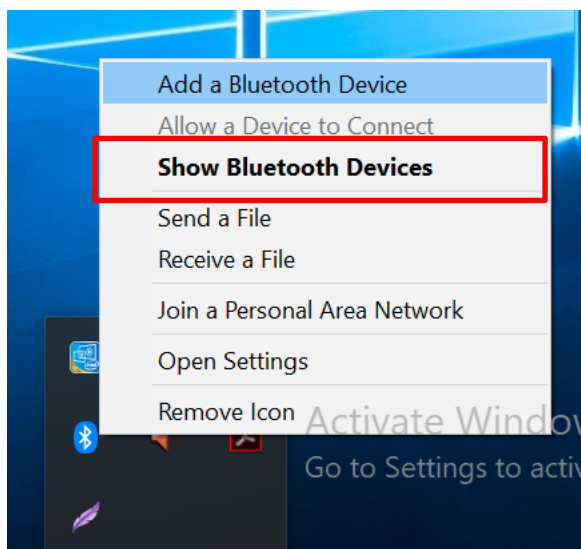


5. In **Add a BT Device** window, click **Next** to connect the Barcode Scanner to the Computer.



In order to ensure that BT Device is successfully pared 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 |
|---|---|
| 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 Hottab. 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 BT. | <ul style="list-style-type: none"> Make sure that both devices have BT powered on (For the Tablet Computer, check Hottab to see if BT 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 Hottab. 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. |

| Problem | Solution |
|--|--|
| 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. |
| 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 Hottab utility. • Make sure under Windows, the Barcode Reader is set to COM 15 port, so that Hottab 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 Hottab 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

Appendix A: Product Specifications

| Model Name | M101S-EX | |
|----------------------|-------------------|--|
| 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 i5-7200U 2.5GHz (up to 3.1GHz) Intel Core i5-7300U 2.6GHz (up to 3.5GHz) (Optional) |
| | System Memory | 8GB DDR4 SDRAM 16GB DDR4 SDRAM (Optional) |
| | Storage | 256GB SSD Additional storage available with micro SDXC card slot 512GB SSD (Optional) |
| | Security | Trusted Platform Module (TPM) 2.0 Kensington Lock |
| | Operating System | Windows 10 IoT Enterprise (64 bit) |
| | WLAN | Support |
| | BT | Support |
| | GNSS | GPS, GLONASS |
| | WWAN | 4G LTE(Optional) |
| | RFID | HF RFID 13.56 MHz reader(Optional) |
| Camera | Front Camera | 2MP Front Camera |
| | Rear Camera | 8MP Rear Camera with auto-focus and LED light |
| Mechanical | Dimensions | 271.8 x 197.2 x 21 mm (10.7 x 7.76 x 0.83 inches) |
| | Weight | 1.25 kg (2.75 lbs) with standard battery, 1.45 kg (3.2 lbs) with optional high capacity battery |
| | Cooling System | Fan design |
| I/O Ports | USB Port | 1 x USB 3.0 (Type A), 1 x USB 3.0 (Type C) |
| | 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 Micro SIM card slot |
| | Indicator | 4x LED Indicator for Power, Battery, HDD, RF status |
| | Docking Connector | 1 x 19-pin docking connector |

| Model Name | M101S-EX | |
|-------------------|------------------------|--|
| 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-810G Method 516.6 Procedure I |
| | Vibration | MIL-STD-810G Method 514.6 Procedure I |
| | Drop | MIL-STD-810G Method 516.6, 4 ft |
| | IP Rating | IP65 |
| Certification | Certification | Microsoft Azure, MIL-STD 810G, TELEC, IP65, ATEX & C1D2, Bluetooth SIG, FCC, CE |
| Security Function | SOTI MobiControl | SOTI MobiControl Compliance |
| | Kensington Lock | Kensington Lock Support |
| Control | Button | 1 x Power, 1 x Home 2 x volume key 2 x Programmable function Keys |
| Power | Battery | Hot-swappable 7.4V, typ. 5140 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 (Optional) Vehicle Dock (without VGA output) (Optional) Vehicle Cradle (Optional) Vehicle Charger (Optional) Battery Charger (Optional) Hand Strap (Optional) Shoulder Strap (Optional) Carry Bag (Optional) VESA Mount Kit (Optional) |

Appendix B: Order Information

M101S-EX Series Tablet PC is available for order in the following configurations:

| Order Information | | | | |
|-------------------|----------|--------------------------|----------------------|----------------|
| | 3G | 4G | 1D/2D Barcode Reader | HF RFID Reader |
| M101S-EX | N/A | N/A | N/A | N/A |
| M101S-EX-HF | Optional | Optional | N/A | Default |
| M101S-EX-BH | Optional | Optional | Default | N/A |
| M101S-EX-H2 | Optional | Optional | Default | Default |
| M101S-EX-LA | N/A | 4G/LTE for North America | Optional | Optional |
| M101S-EX-LE | N/A | 4G/LTE for Europe | Optional | Optional |

