M101B, M101BL

Rugged Windows Tablet

Intel® Celeron® Quad Core N2930, 1.83 GHz

Windows 10 IoT Enterprise

Windows Embedded 8.1 Industry Pro

Windows 7 Pro for Embedded Systems

User Guide

Version 1.7
Document Part No. 9171111K101X

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

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Chapter 1: Read Me First

1.1 Advisory Conventions

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

Note:
A note is used to emphasize helpful information

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

Caution/ Attention
A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.
Unealerted'attentionindique un dommage possible à l'équipement et explique comment éviter le problèmepotentiel.

Warning! Avertissement!
An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem.
Un Avertissement de Choc Électriqueindique le potentiel de chocssur des emplacements électriques et comment évitercesproblèmes.

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 dois 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 him own expense.

CE Notice (European Union)

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

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

Chapter 2: Getting Started

Thank you for purchasing this rugged Tablet Computer. The rugged design allows you to use it in harsh outdoor environments.

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

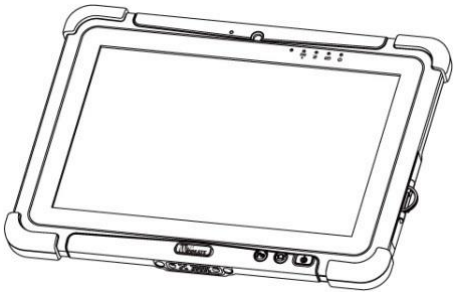
- Unpacking
- Description of Parts
- First Time Operations
- Powering On/Off

2.1 Unpacking

Check and identify the standard supplied accessories.

Standard factory shipment list:

- Tablet Computer

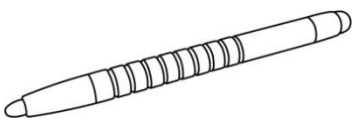


- Standard Battery

- Power Adapter

- Power Cord and Plugs

- Capacitive Touch Stylus



- Driver CD

Optional Accessories

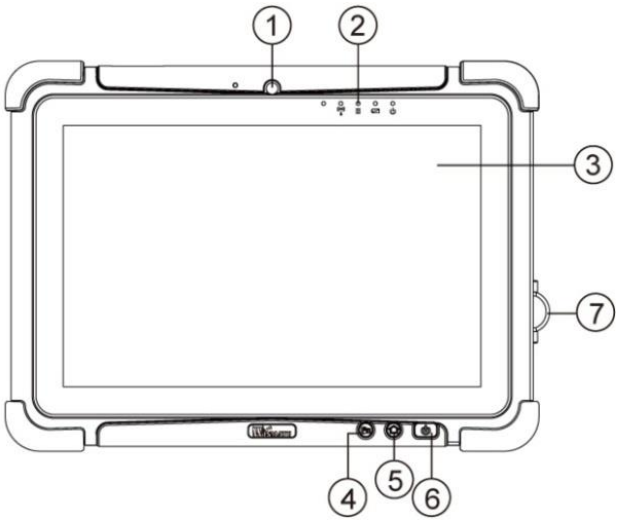
Your package may include optional accessories based on your order.

M101B offers the following optional accessories that can be purchased:

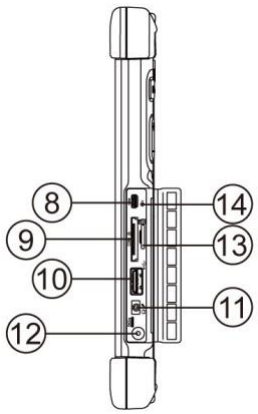
Gigabit Ethernet Adapter • For LAN from 30-pin extension port • Length; 10 cm • Connector: RJ45, female • Gigabit LAN, 10/100/1000 Mbps	**RS232 Ethernet Adapter** • For RS232 from 30-pin extension port • Length:10 cm • Connector: DB9 Serial RS232 Cable, female
High Capacity Battery • Capacity: 7.4V min. 10280 mAh, typ. 10600 mAh (2S2P) • Li-Polymer Battery	**Hand Strap** • Ergonomic hand-strap can help you handle the Rugged Tablet PC much more easily and comfortably.
Battery Charger • Dual charging bays supporting both BS101 and BL101. • LED indicators to show current battery charging status.	**Vehicle Charger** • Rapidly charges your M101B Tablet PC in your car while you drive • Length: 3m
Desk Docking • 4 x USB 2.0 (2 x Rear, 2 x Side) • 1 x LAN (10/100) • 1 x VGA • 1 x RS232	**Vehicle Docking** • VESA Mounting support • 4 x USB 2.0 (2 x Rear, 2 x Bottom) • 1 x LAN (10/100) • 1 x RS232 • 1 x GPS ANT SMA • 9-36V DC IN with 3-pin terminal block • Easy insert and release with Key-Lock
	VESA Mount Kit • 75 x 75 mm VESA Mount • Slim design; SGCC material

2.2 Description of Parts

Front:



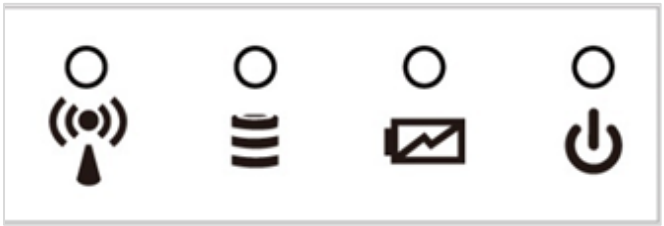
Right:



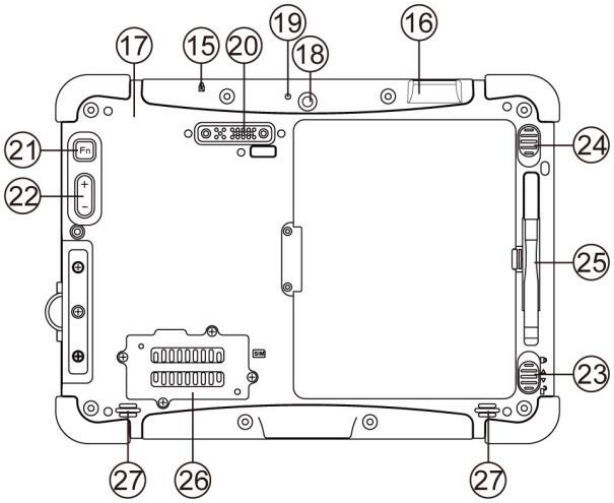
No	Item	Description
1	Front Camera	2 Megapixel Webcam
2	LED Indicators:	Show the current status of the Tablet Computer
3	Touch Screen	Display and act as one of the inputs for the Tablet Computer
4	Fn1 Button	Programmable function key configured by Hottab Utility
5	Menu Button	Hottab Quick Access
6	Power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

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

Front LED Indicators Details:

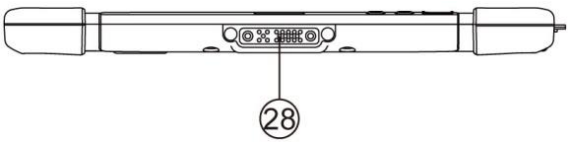


Rear:



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

Bottom:



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

2.3 HotKey for Specific Functions

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

Under POST (before Windows boots up):

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

Under Windows:

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

LED Indicators:

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

2.4 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.

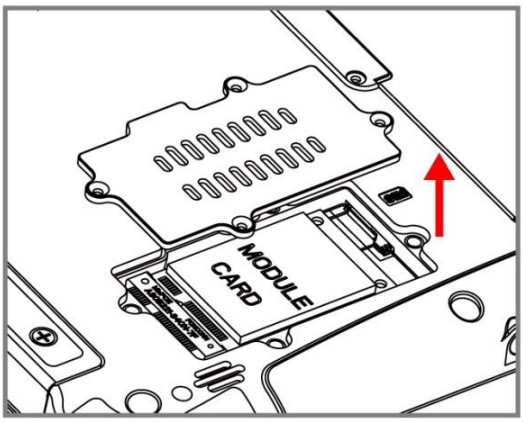
2.4.1 Installing SIM Card (For 3G/LTE Equipped Devices)

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

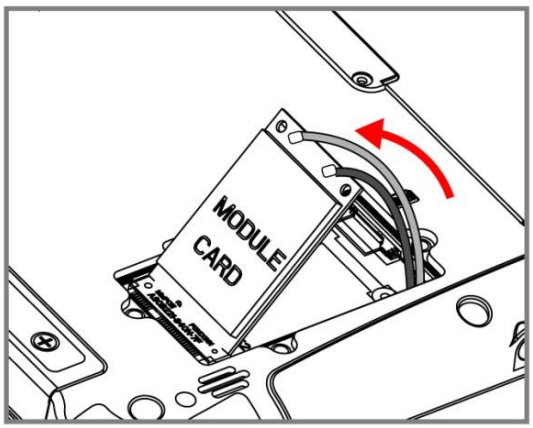
To install the SIM card:

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

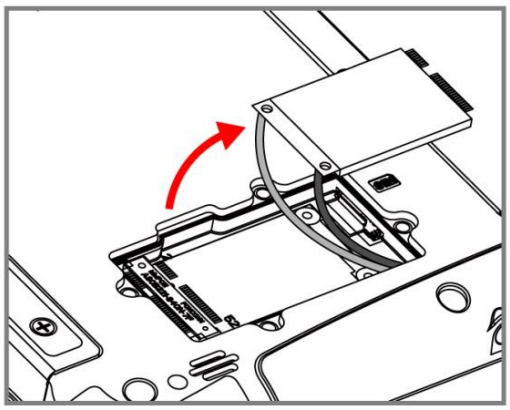
❶ Remove four screws and remove the service window.



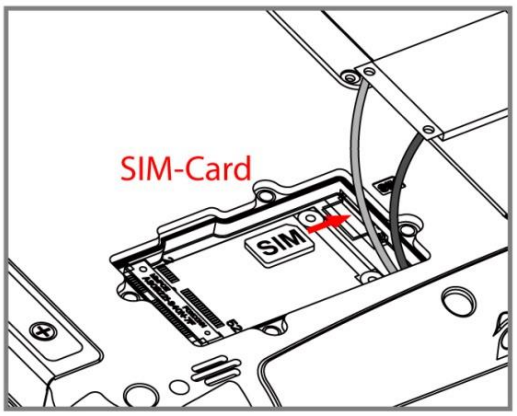
❷ Remove the one screw that secures the 3G/ LTE module. Carefully lift the module up. **Do not to damage the connected cables!**



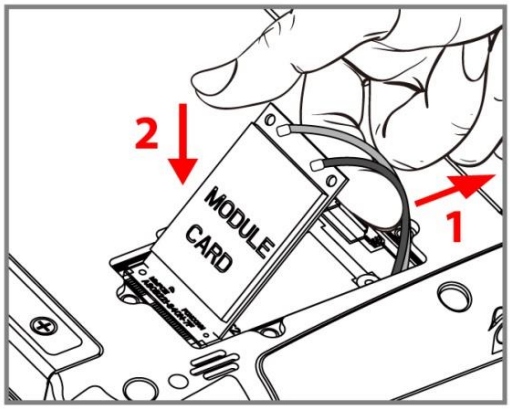
❸ Carefully flip and move the 3G/ LTE module and to the right. **Do not disconnect cables!**



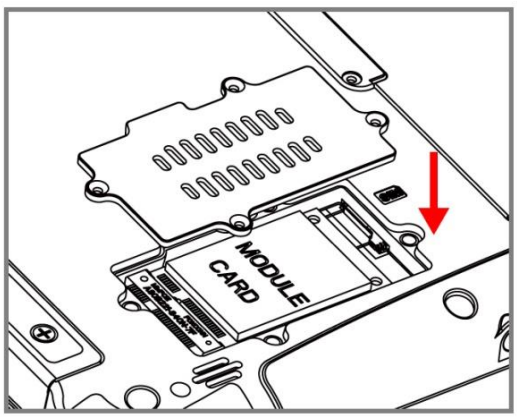
❹ Insert SIM-Card all the way in. **Chip/ contact facing down.**



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!**



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



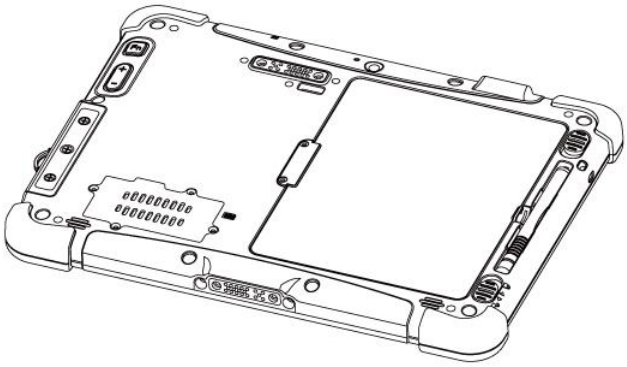
Caution

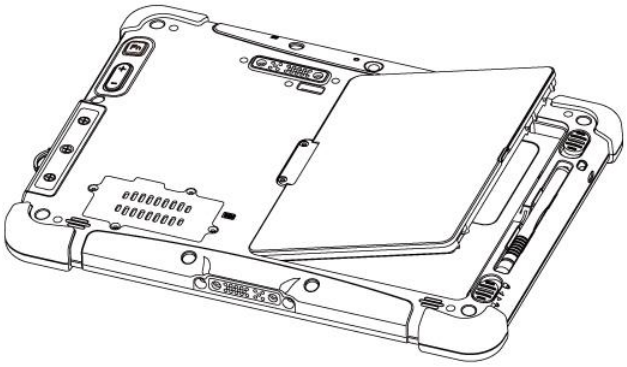
When re-inserting 3G/LTE module, please pay attention to cable routing. Make sure the cable module does not get squeezed.

2.4.1 Inserting Battery Pack

To insert the standard battery pack into the Tablet Computer:

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





Removing the Battery Pack

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

2.4.2 Connecting to Power Supply

The Tablet Computer operates either on external AC power or internal battery power.

It is recommended to use AC power when you start up the Tablet Computer for the first time.

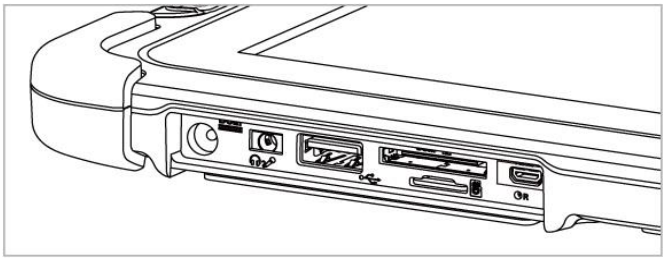
CAUTION	**Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.**

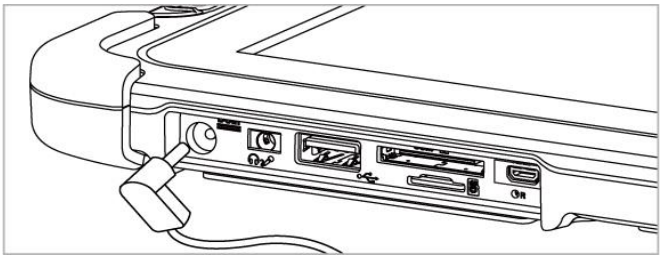
CAUTION	**For users start up the Tablet Computer for the first time with internal battery power, please make sure the battery is fully charged before using.**

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

1. On the side of the Tablet computer, lift the I/O protective cover by pulling on the latch

2. Plug the DC cord of the AC adapter into the Power Jack of the tablet computer.
3. Plug the AC power cord into the AC adapter.
4. Finally, Plug the AC power cord into the electrical outlet.





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

Item	Hours
Battery Life	
Standard Battery (BS101)	8 Hours
High Capacity Battery (BL101)	16 Hours

Item	Hours
Battery Charging hours	
Standard Battery (BS101)	2.5 Hours
High Capacity Battery (BL101)	4.5 Hours

2.5 Powering On / Off

2.5.1 Powering On

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

NOTE:

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

2.5.2 Powering Off

Perform the following procedure to power off the Tablet Computer:

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

NOTE:

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

Chapter 3: Setting Up Windows for the First Time

CAUTION	**For users start up the Tablet Computer for the first time with internal battery power, please make sure the battery is full charged before using.**

This section details how to setup different version of the Windows that may be installed on the tablet for the first time.

NOTE:
Please notice that BIOS will vary with different Windows OS; for users going to change OS, please contact our sales contact window for details.

3.1 Setting Up Windows Embedded Standard 7 (WS7P)

During the setup process, you create a user name and password, verify the correct time and date, and then choose your Internet network.

3.1.1 Creating a user name and password

1. Create a User name. (This user name is for the administrator of the computer.)
2. Type the selected user name in the text box, and then click **Next**.
3. On the next screen, type the password in the text box, retype the password in the next box, and then click **Next**.

3.1.2 License Agreement

The next screen requests confirmation that you accept the Software License Terms and the End User License Agreement.

Click both check boxes and then click **Next**.

3.1.3 Protecting your computer

The next screen displays options for protecting the security of your computer and for receiving Windows updates.

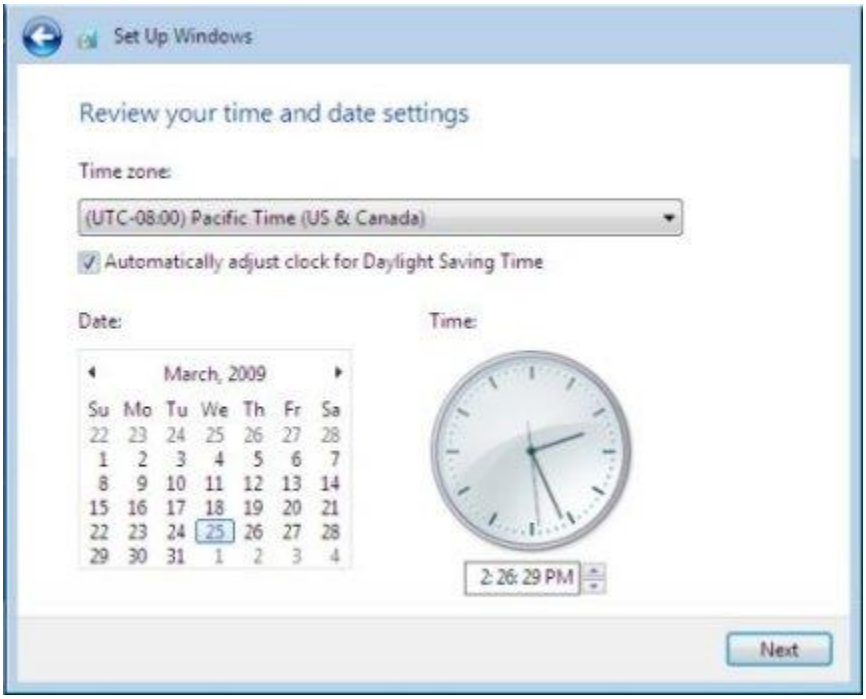
You have three choices:

1. Use recommended settings (automatically downloads and installs all updates provided by Microsoft)
2. Install important updates only (only downloads and installs critical updates)
3. Ask me later.

Click the option you wish to use.

Reviewing your time and date settings

The next screen contains options for changing the date and time settings.



Verify your time zone, time, and date. Make any necessary changes. Then click **Next** to continue.

3.1.4 Choosing your computer's network

If you have a home network, connect with an Ethernet cable or activate the Wireless feature before continuing.

Use the following steps to setup your computer network:

1. Choose a wireless network from the list.
2. If you do not see your network, click Connect to a hidden wireless network, enter the network name, and select the security type and encryption type. Or, click Skip to continue without a wireless connection and set it up later.
3. From the next screen, select one of the following locations for your computer:

- **Home network:** Select this location if all the computers on this network are at your home and you recognize them. This is a trusted home network.
- **Work network:** Select this location if all the computers on this network are at your workplace and you recognize them. This is a trusted work network.
- **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.

4. Click the location where you will most often use the computer.

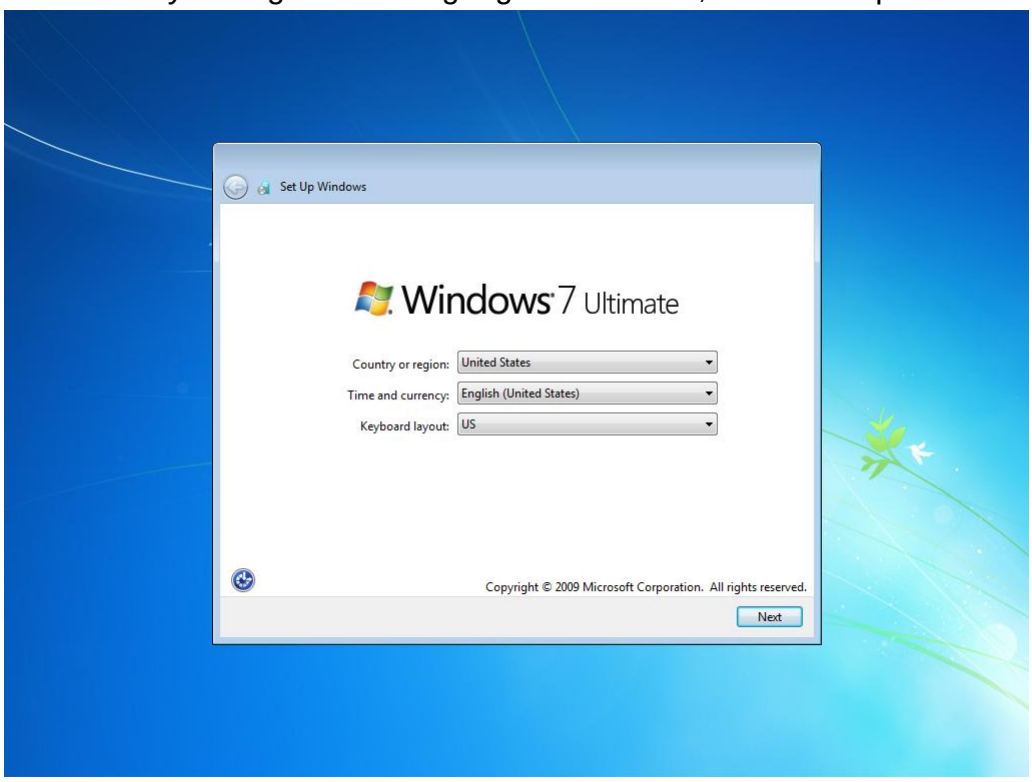
3.1.5 Completing Windows 7 Setup

After completing Windows 7 setup, a Preparing your desktop screen displays. Please allow several minutes for Windows to save your settings.

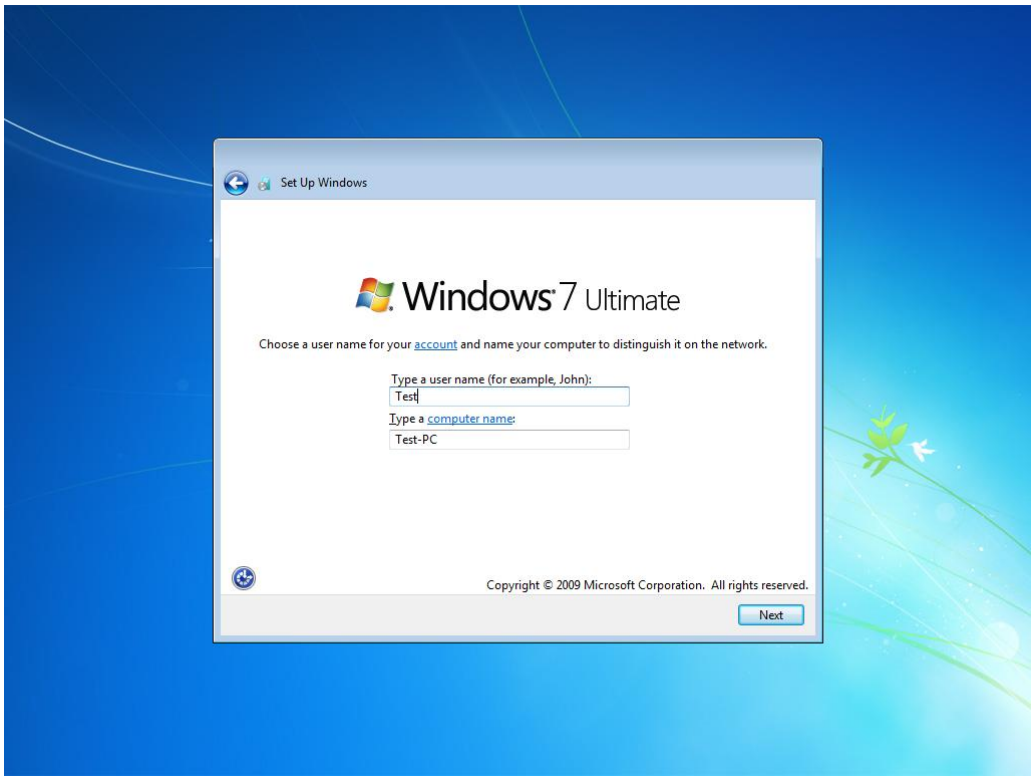
3.2 Setting Up Windows 7 Ultimate/Professional

Follow the steps below to complete the setup process.

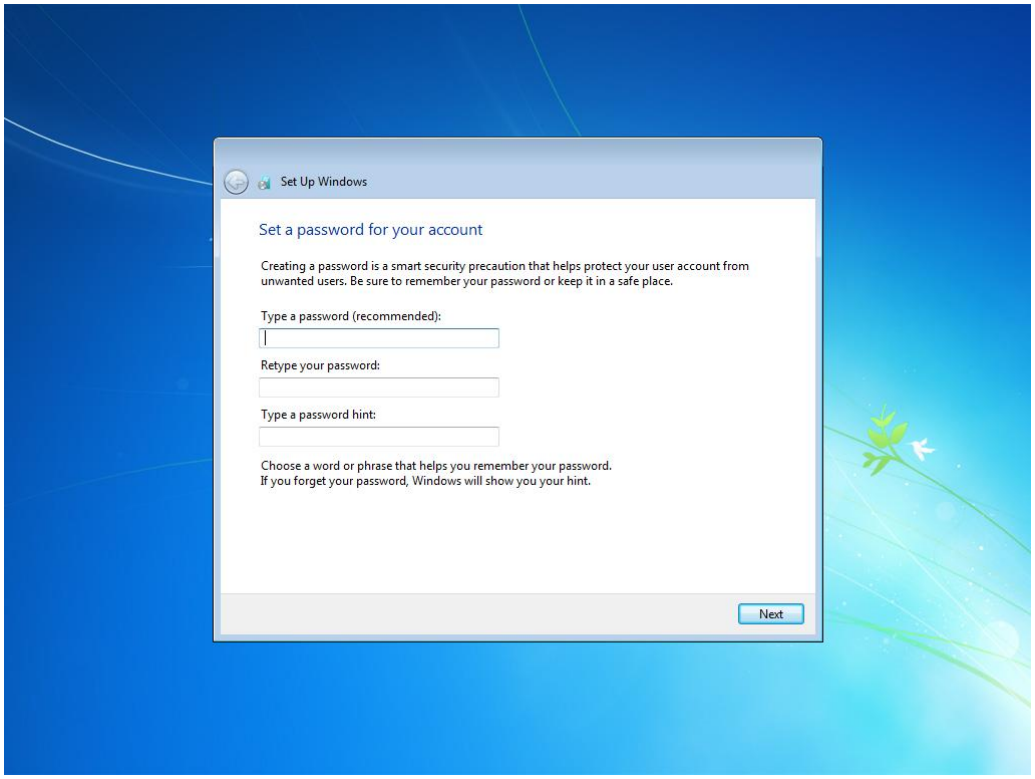
1. Press the power button to power on the computer.
2. First select your region and language information, and then tap **Next**



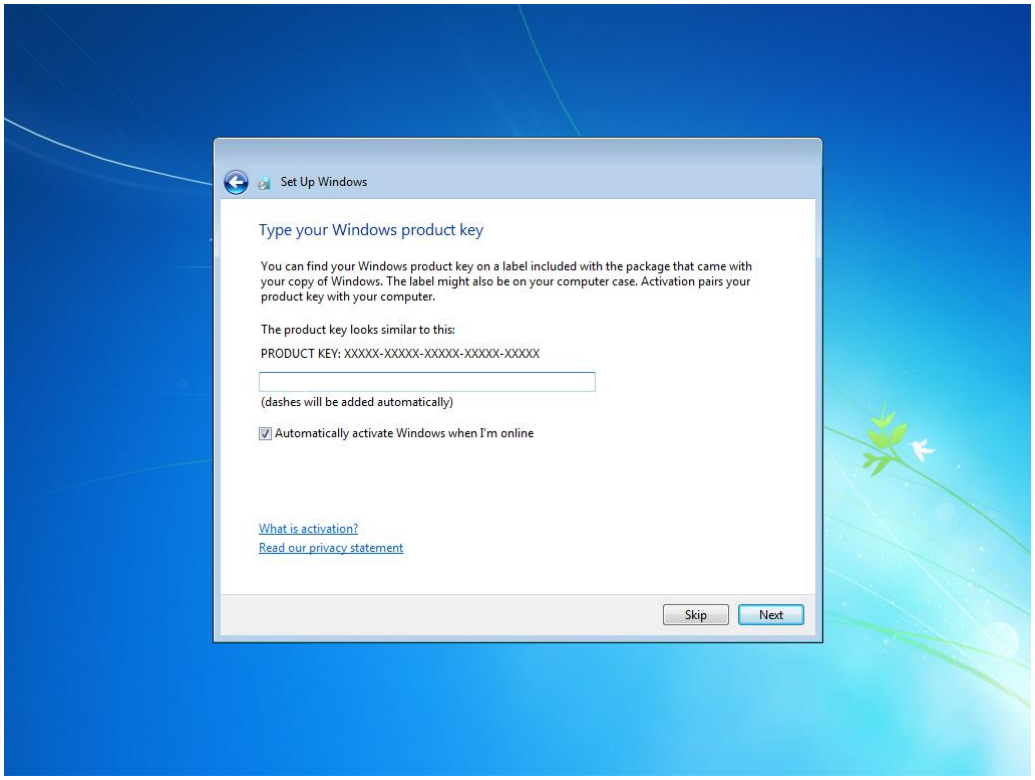
3. Type in a user name for your account to be used on this PC and tap **Next**



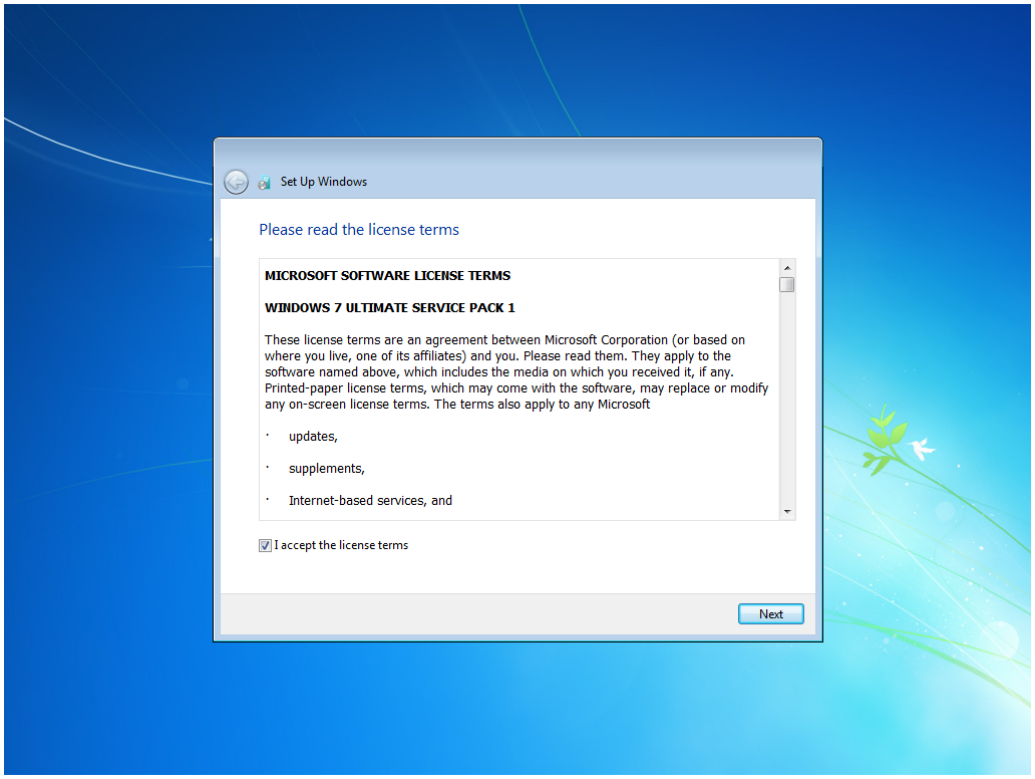
4. Type in a password for your account and tap **Next**



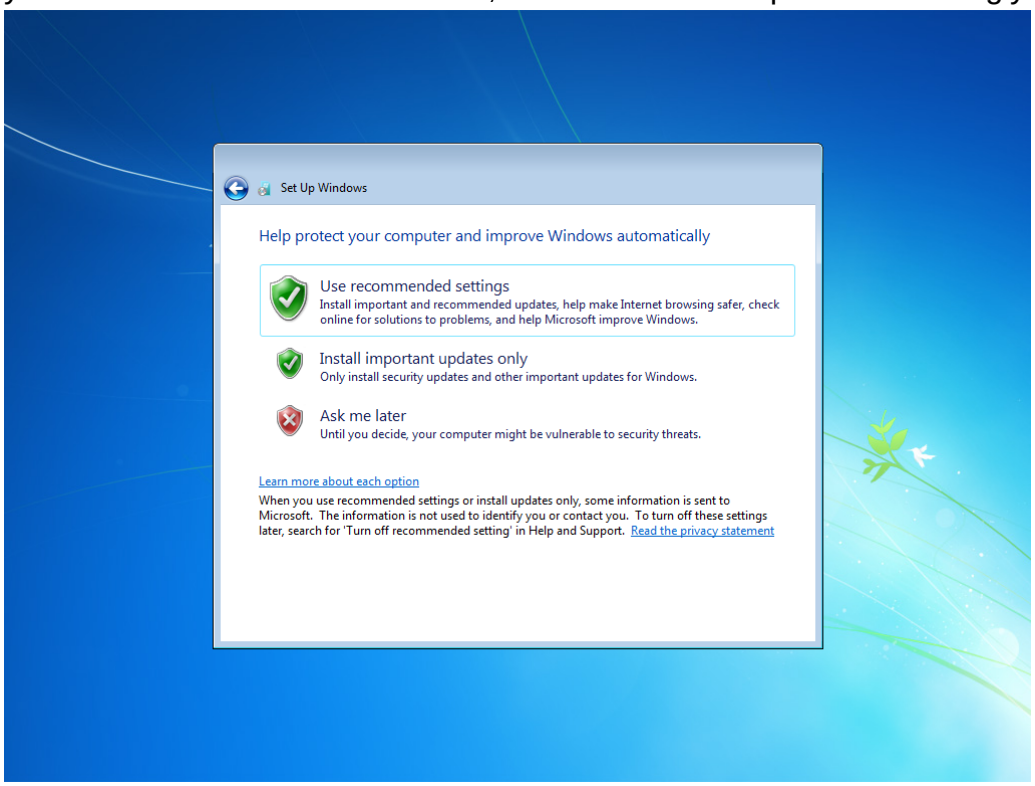
5. Now enter the product key that came with the computer and tap **Next**. For this version of the Windows, a product key entry is required when setting up the computer for the first time.



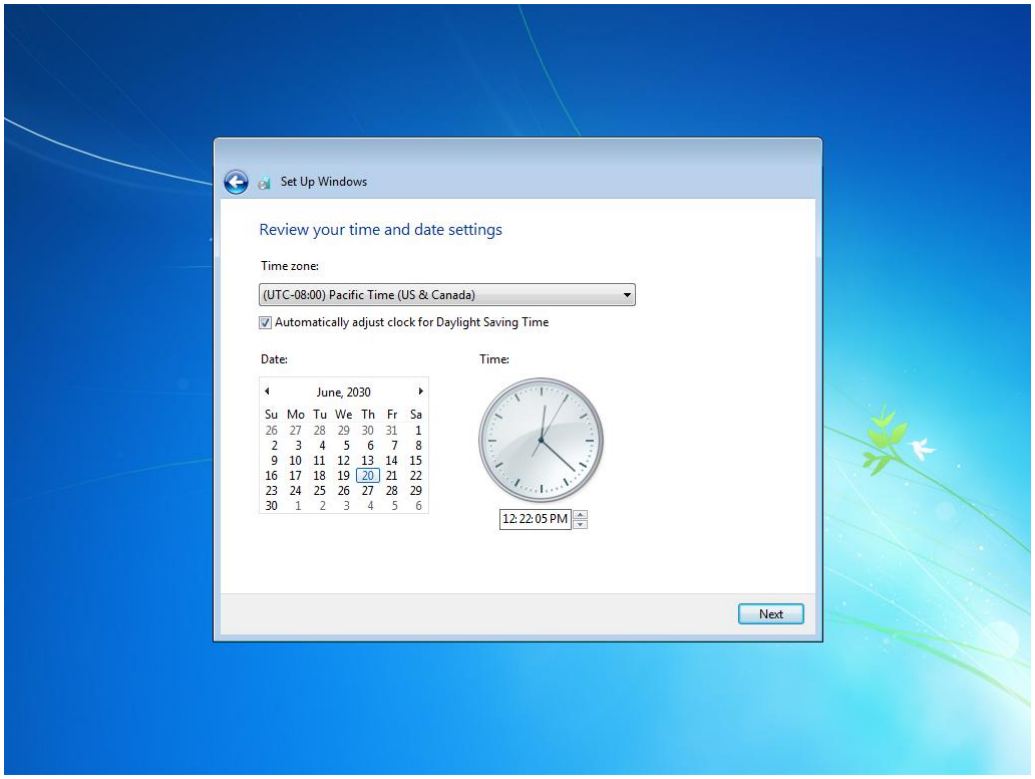
6. On the license terms screen, click on the **I accept the license terms** and tap **Next**



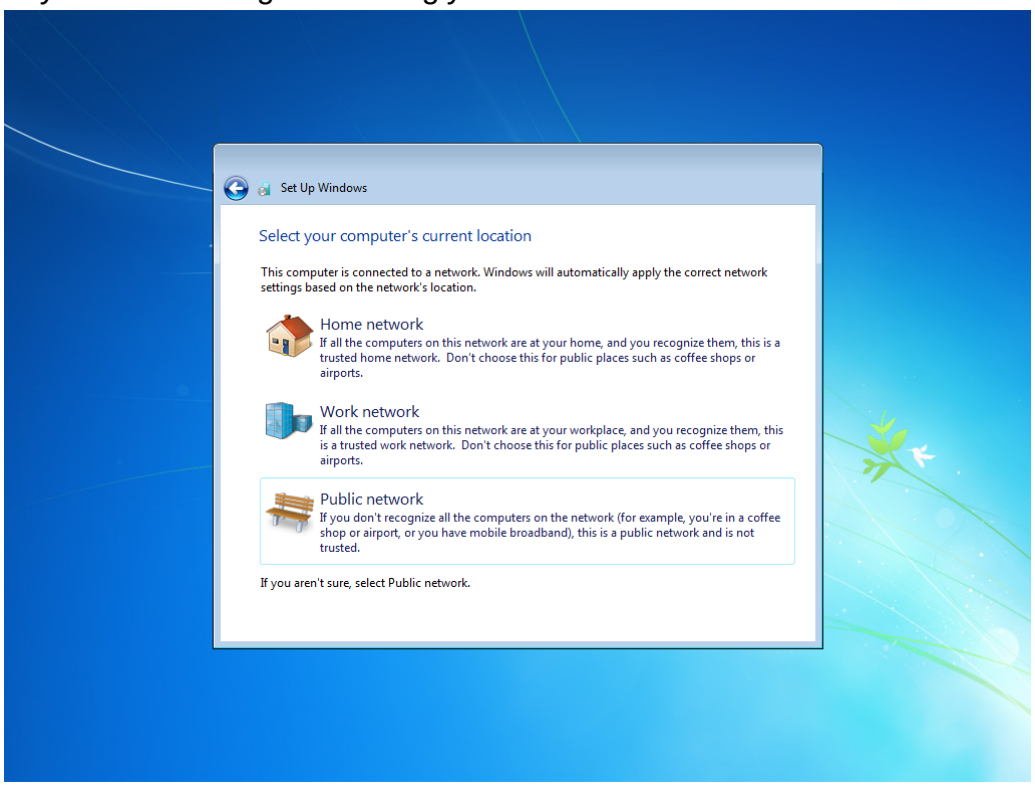
7. For the update option, choose Use recommended settings for Windows to install updates. If you do not wish Windows to do so, choose the other options accordingly.



8. Next, review the date and time settings on the computer



9. Select the computer current location for network privacy setting. Choose the location below to your actual usage accordingly.

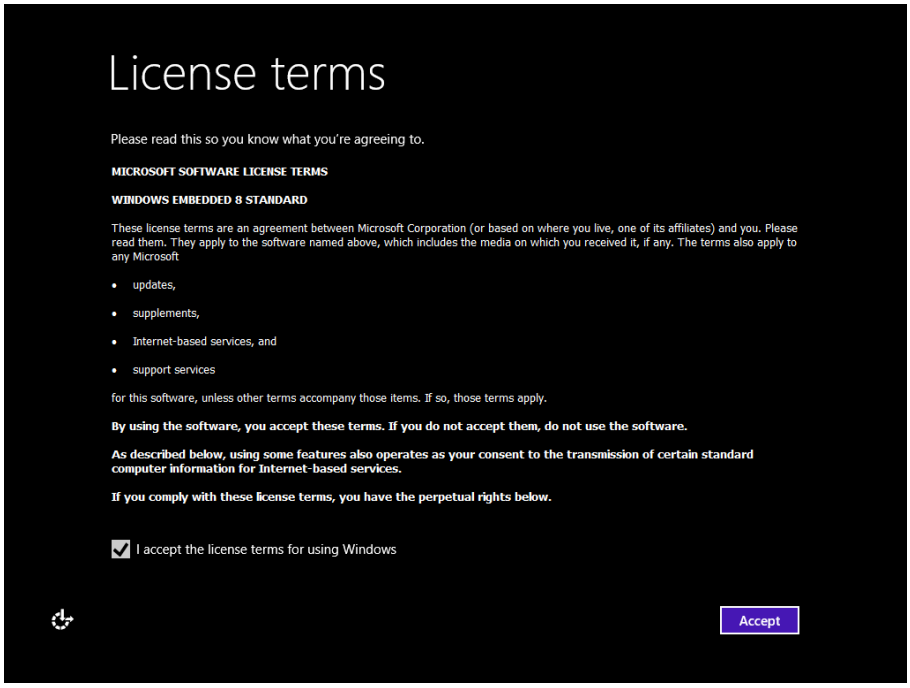


10. Allow time for windows to setup your desktop for the first time.
11. Now the computer is ready to be used.

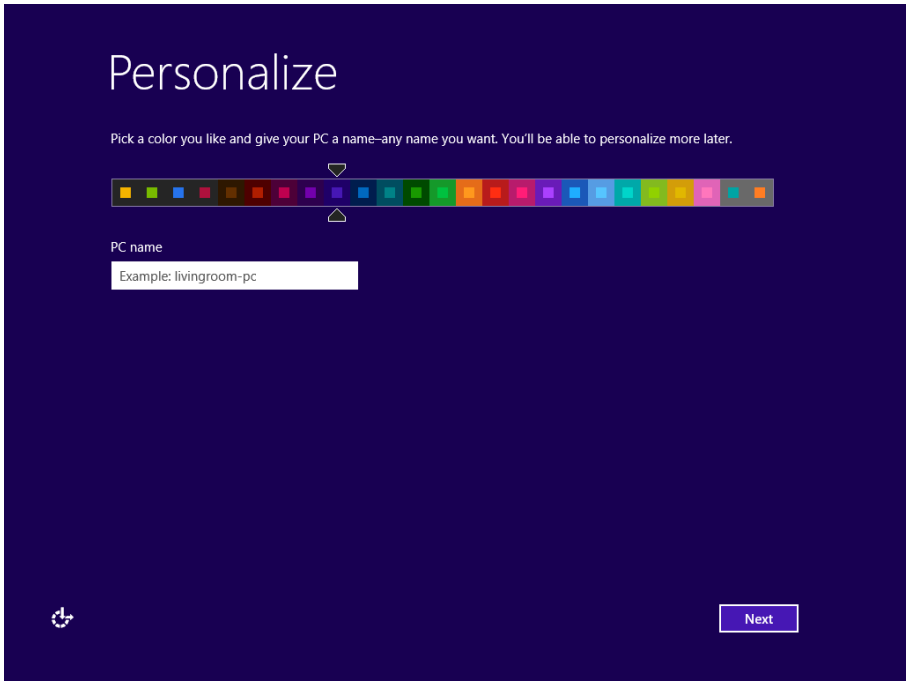
3.3 Setting Up Windows Embedded 8 Standard

Follow the steps below to complete the setup process.

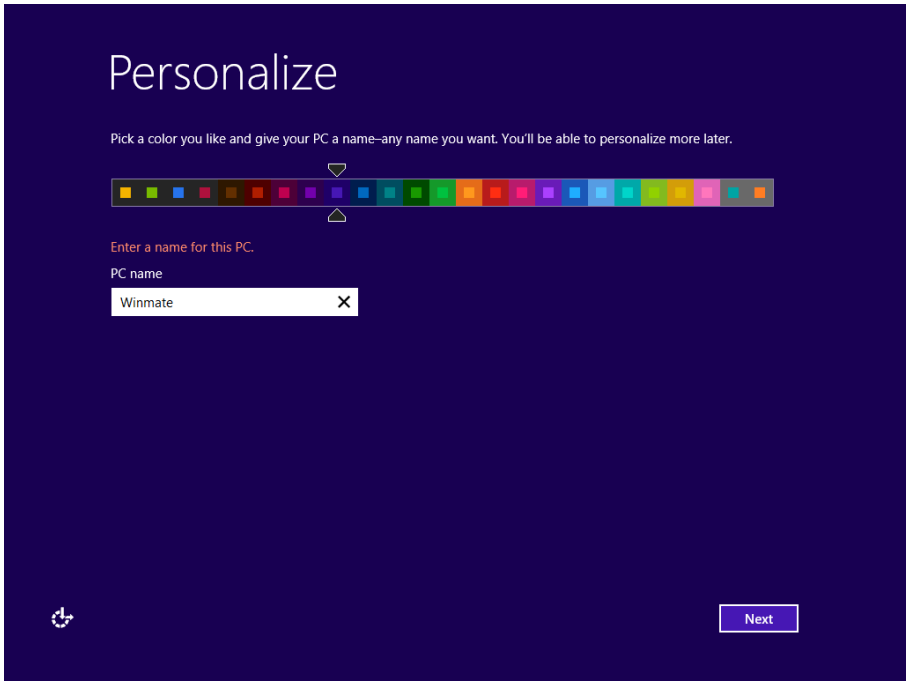
1. Press the power button to power on the computer.
2. Check **I accept the license terms for using Windows** to accept the terms, and then click or tap **Accept**.



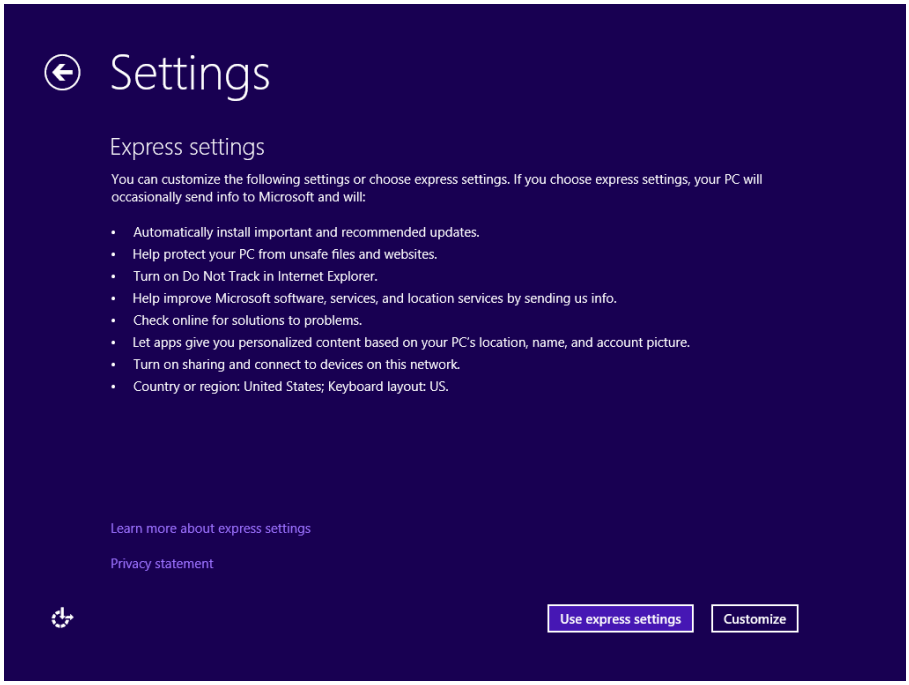
3. On the **Personalize** screen, choose a color you like – you can always change this later from the Start screen.



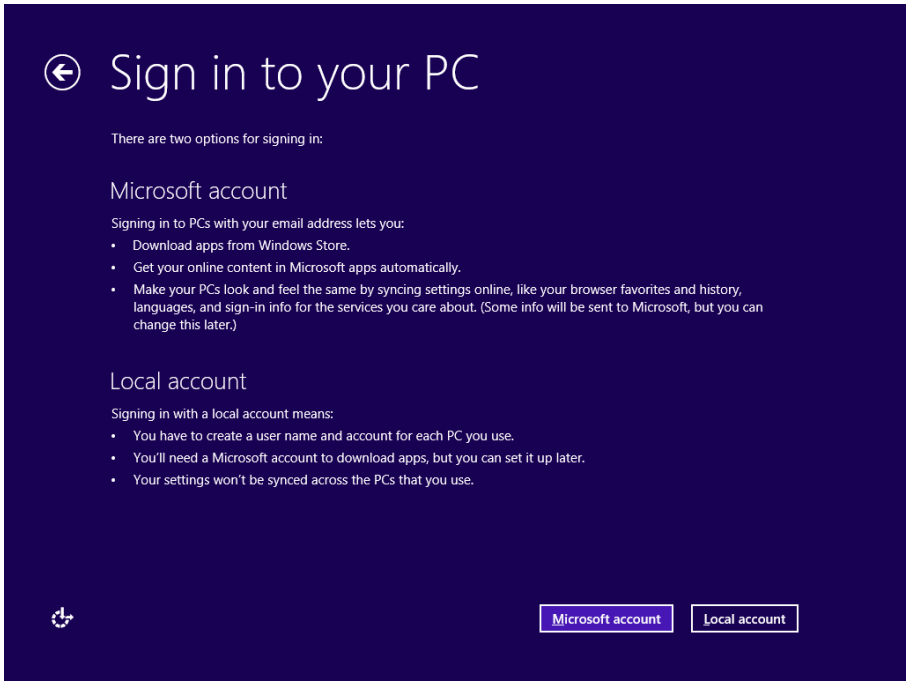
4. In the **PC name** field, type a name for your computer, and then click or tap **Next**.



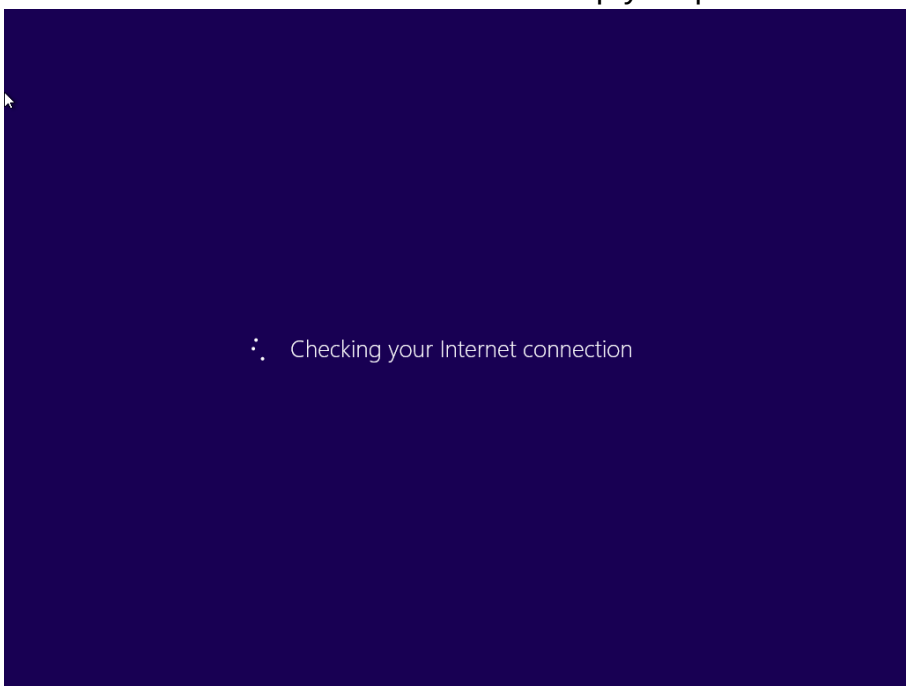
5. On the **Settings page** screen, choose **Use express settings** for the fastest setup.



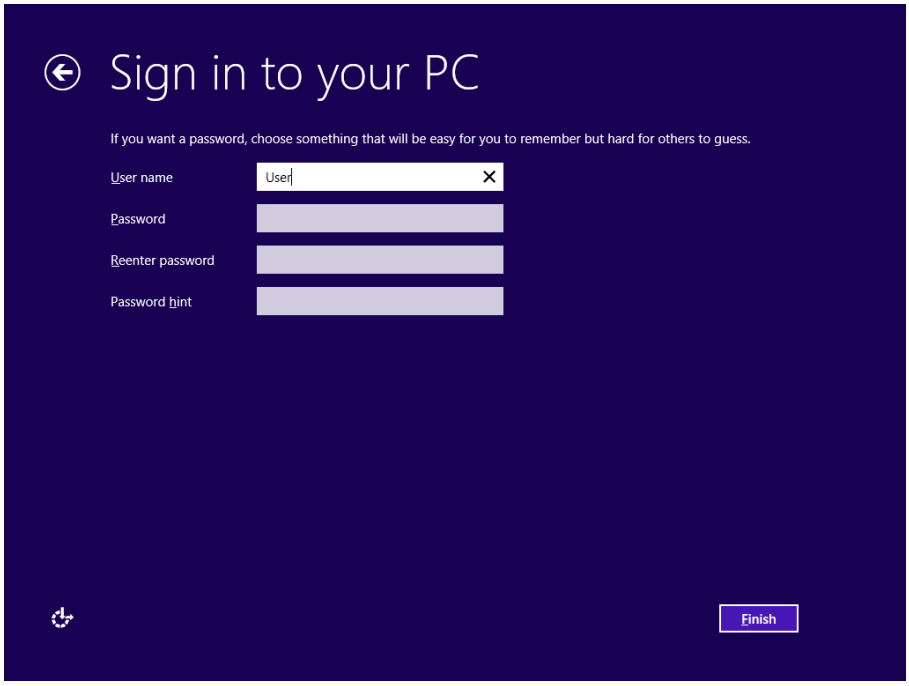
6. On the **Sign in to your PC** screen, choose to create a **Local account**.



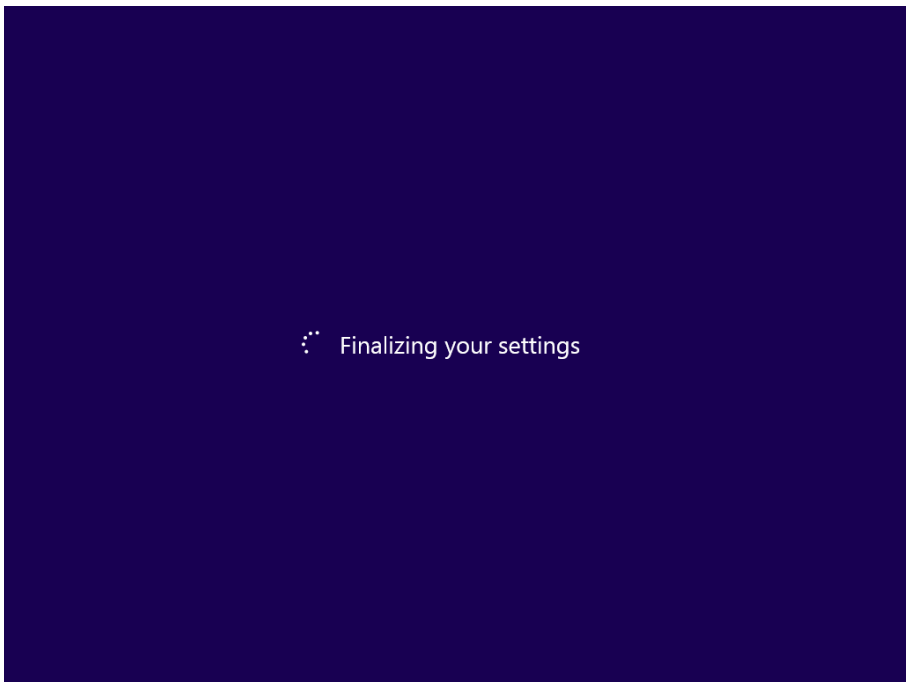
7. Windows will then try to connect to network. Ignore attempt to connect to internet as you do not need internet connection to finish setup your pc.



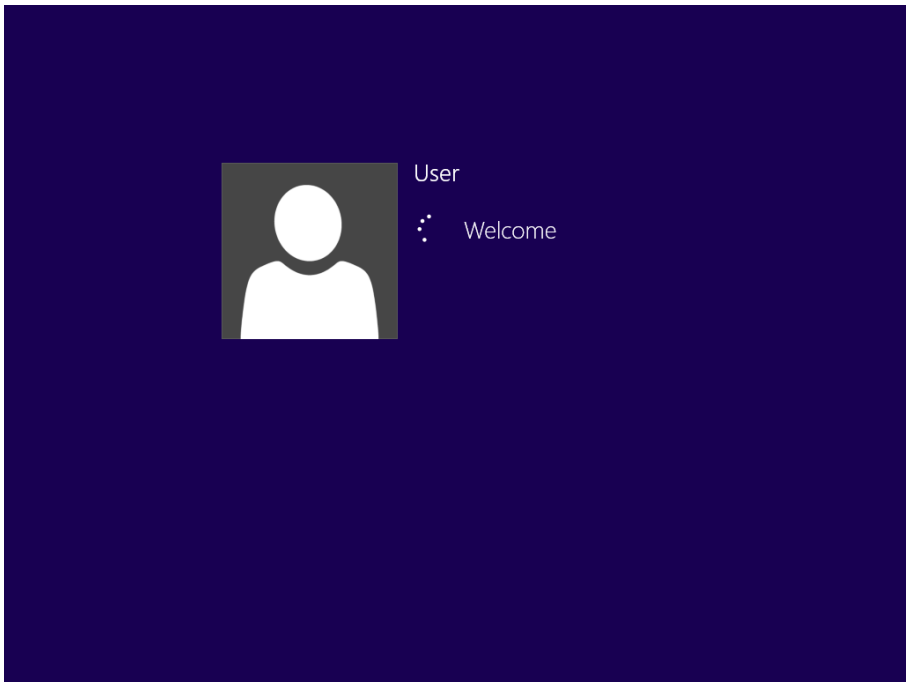
8. Type your username and password to create a local account, and then click or tap **Finish**.



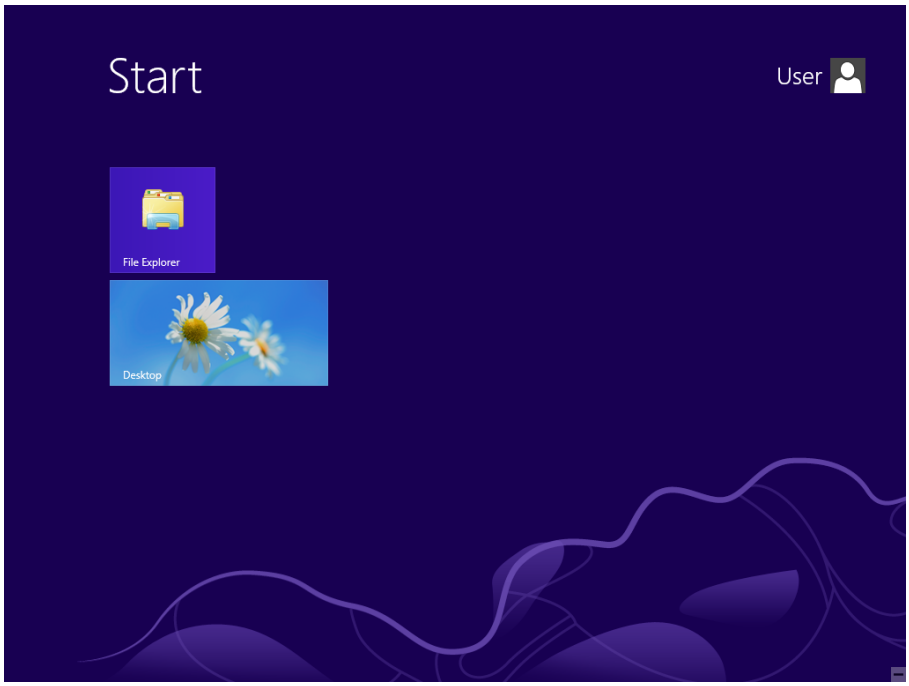
9. Windows may take some time to finalize your settings.



10. On the **Windows Sign-in** screen, enter the user name and password that you set up earlier, and then press **Enter**.



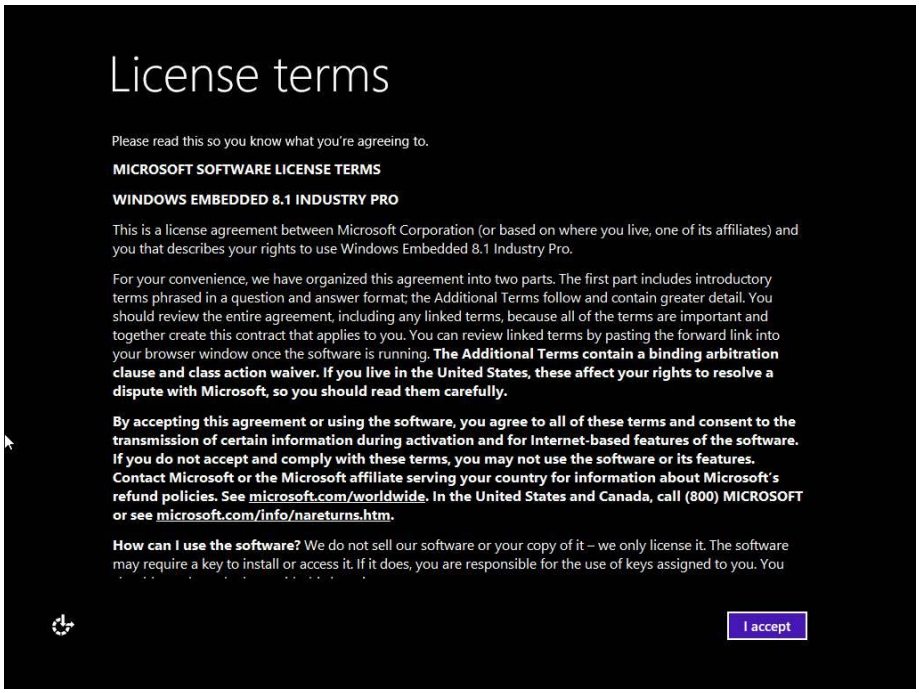
11. Once Windows finishes login, you are now ready to use the PC



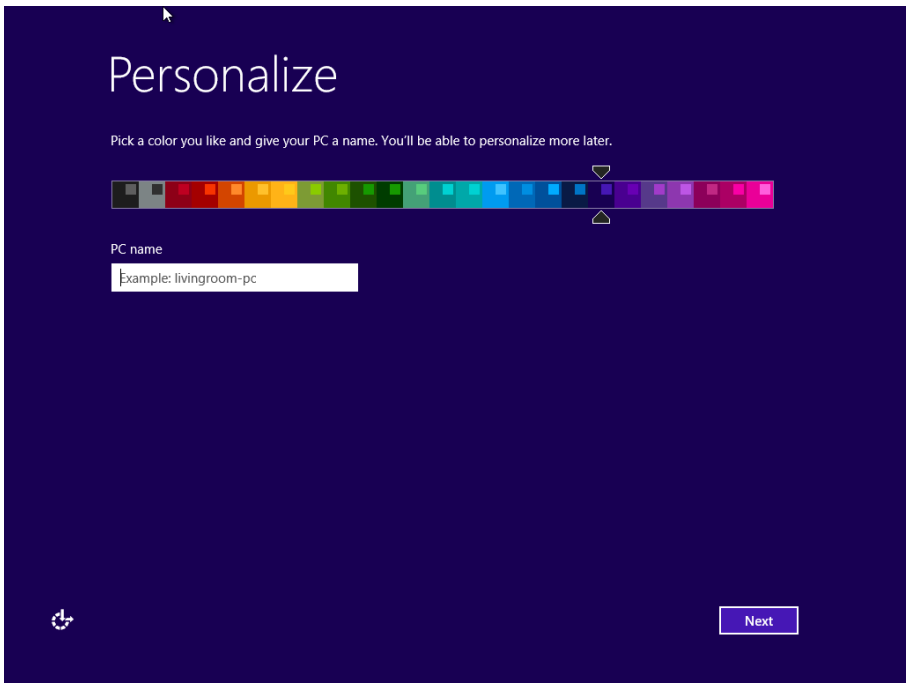
3.4 Setting Up Windows Embedded 8.1 Industry Pro

Follow the steps below to complete the setup process.

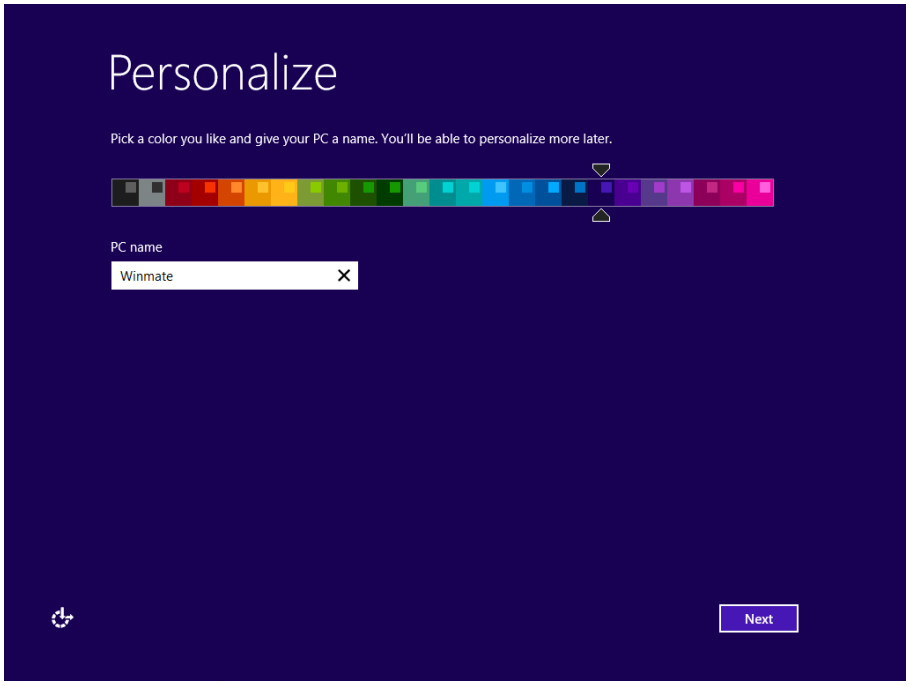
1. Press the power button to power on the computer.
2. Check **I accept the license terms for using Windows** to accept the terms, and then click or tap" **I Accept**".



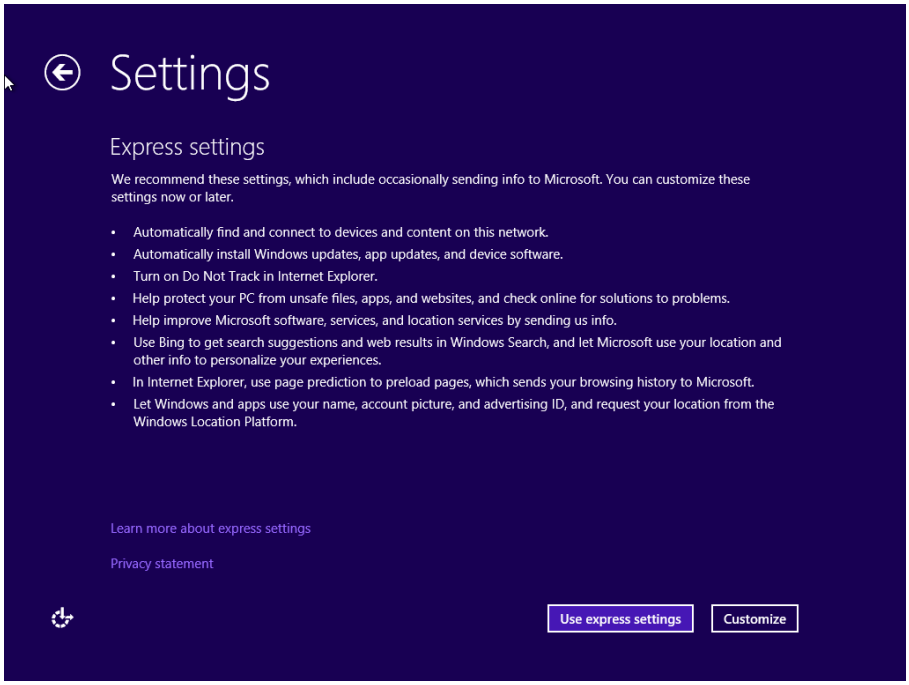
3. On the **Personalize** screen, choose a color you like – you can always change this later from the Start screen.



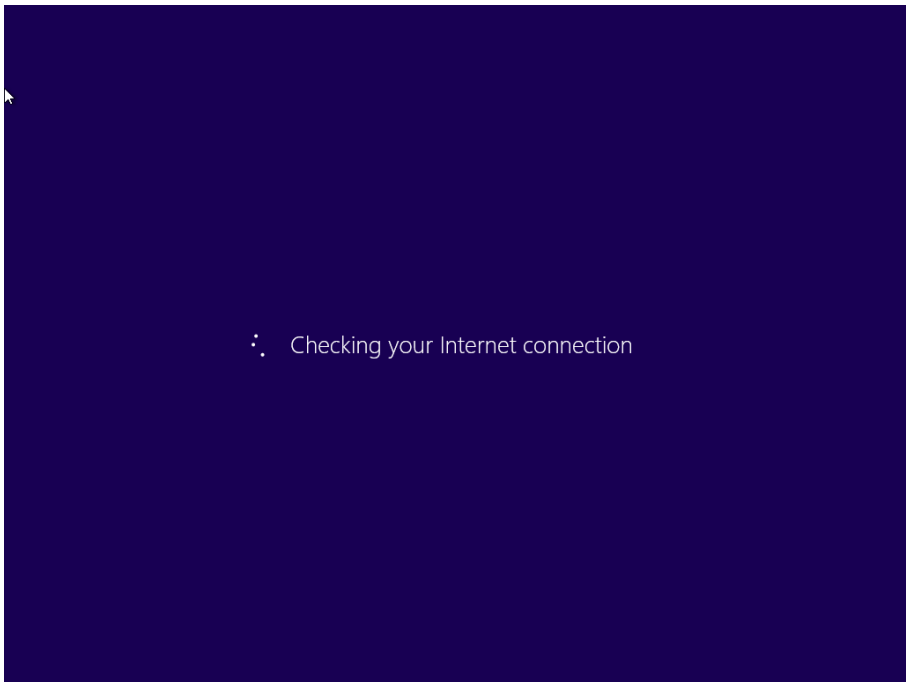
4. In the **PC name** field, type a name for your computer, and then click or tap **Next**.



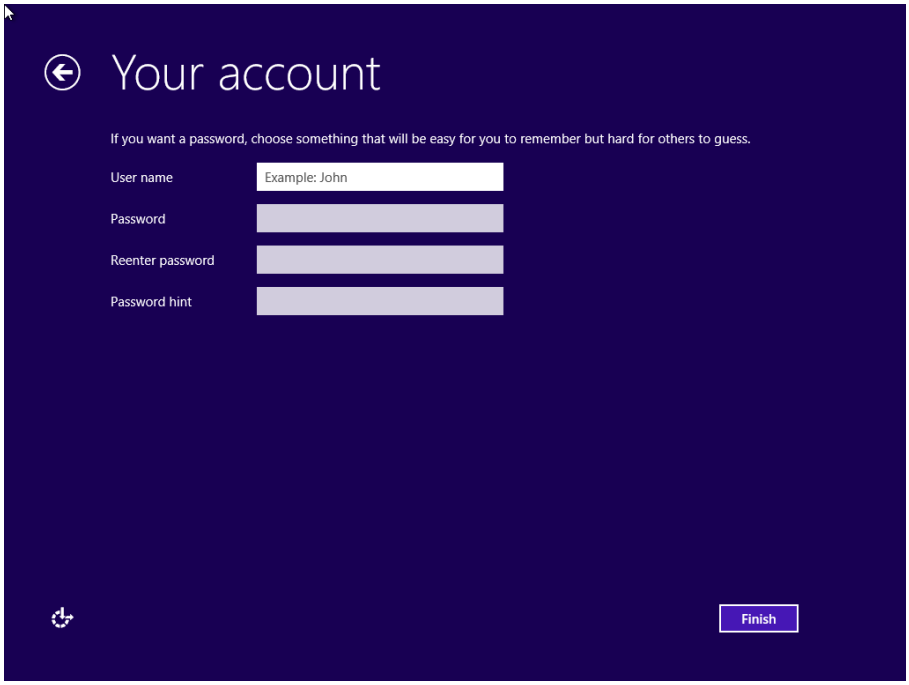
5. On the **Settings page** screen, choose **Use express settings** for the fastest setup.



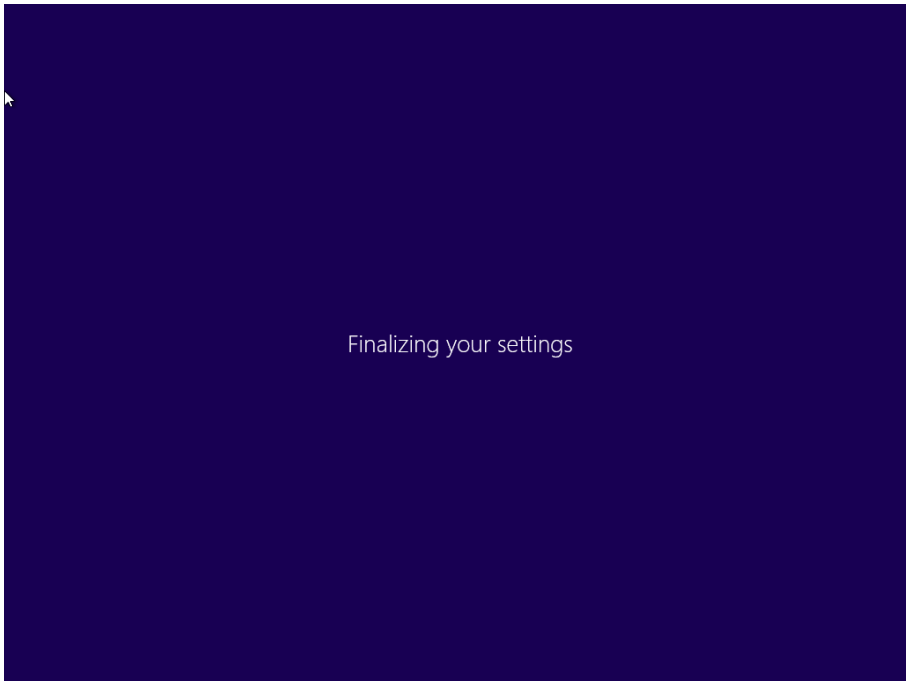
6. Windows will then try to connect to network. Ignore attempt to connect to internet as you do not need internet connection to finish setup your pc.



7. On **Your account** screen, type your username and password to create a local account, and then click or tap **Finish**.

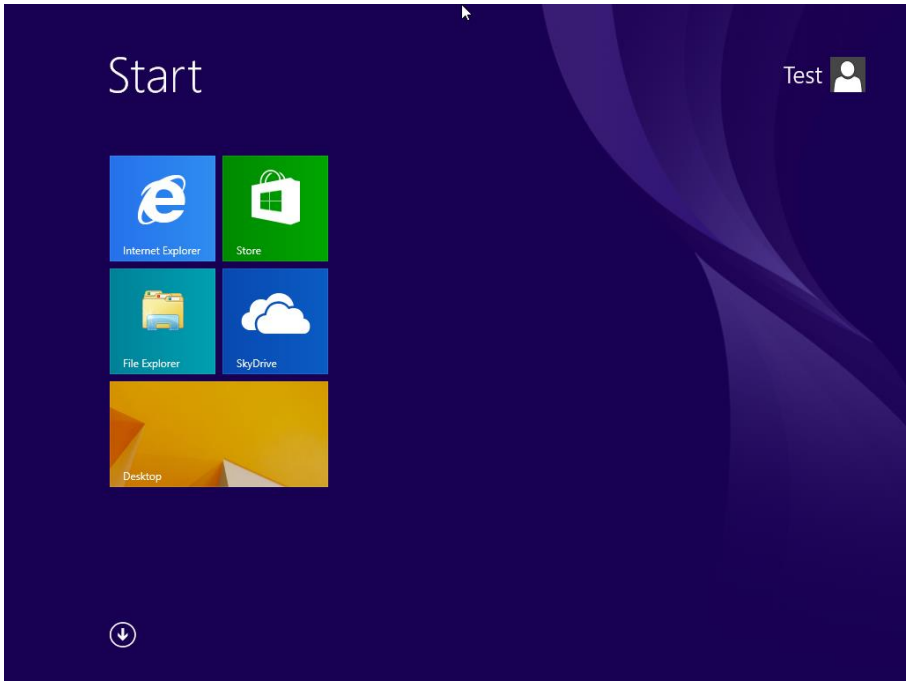


8. Windows may take some time to finalize your settings.



9. On the **Windows Sign-in** screen, enter the user name and password that you set up earlier, and then press **Enter**.

10. Once Windows finishes login, you are now ready to use the PC

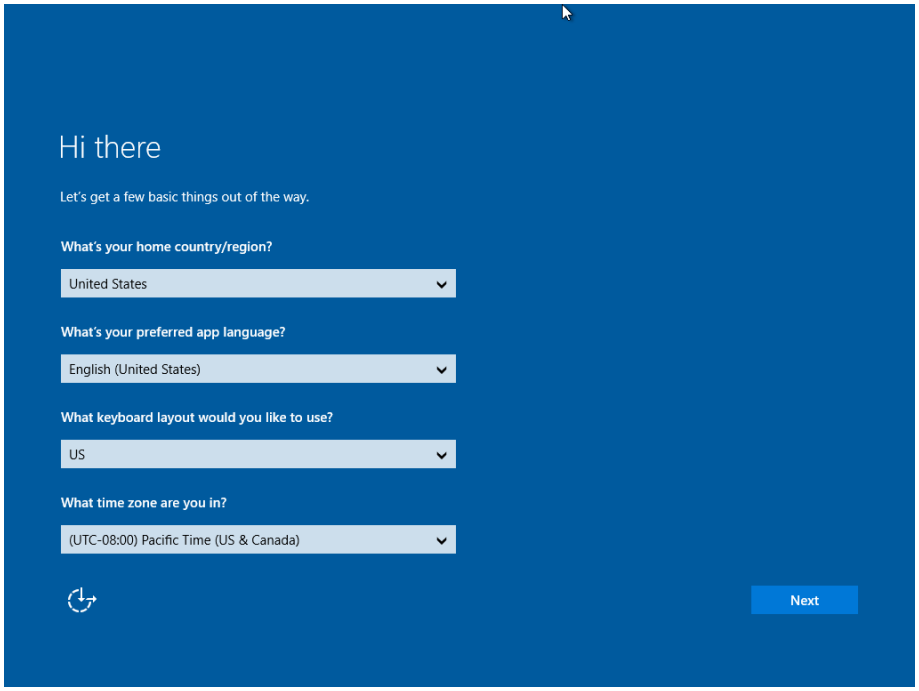


3.5 Setting Up Windows 10 IoT Enterprise

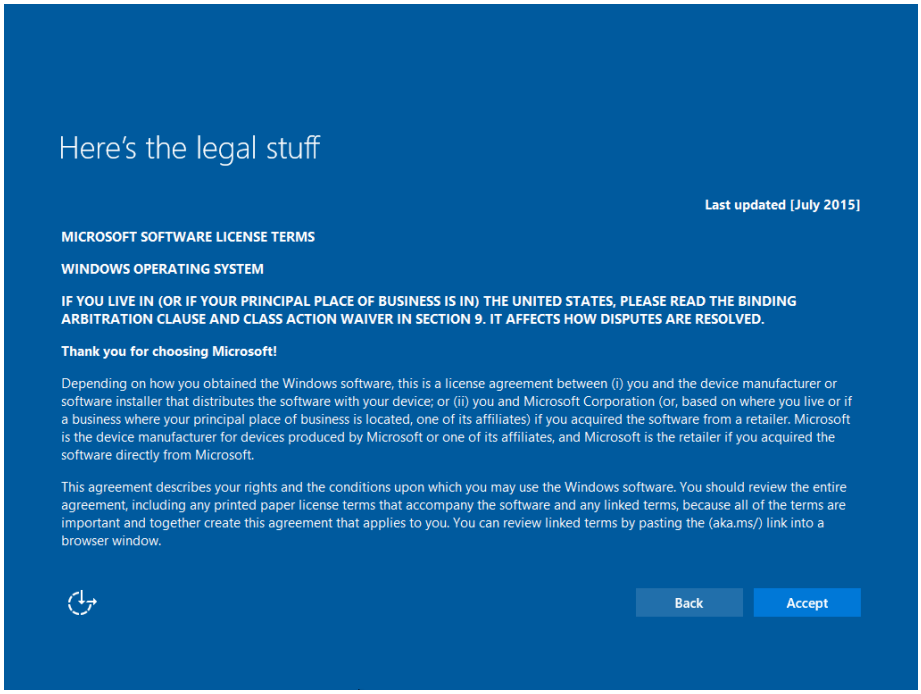
Follow the steps below to complete the setup process.

1. Press the power button to turn on the computer.

2. First, select your country/region, your preferred app language, your preferred keyboard layout, and your time zone, then tap **Next**.

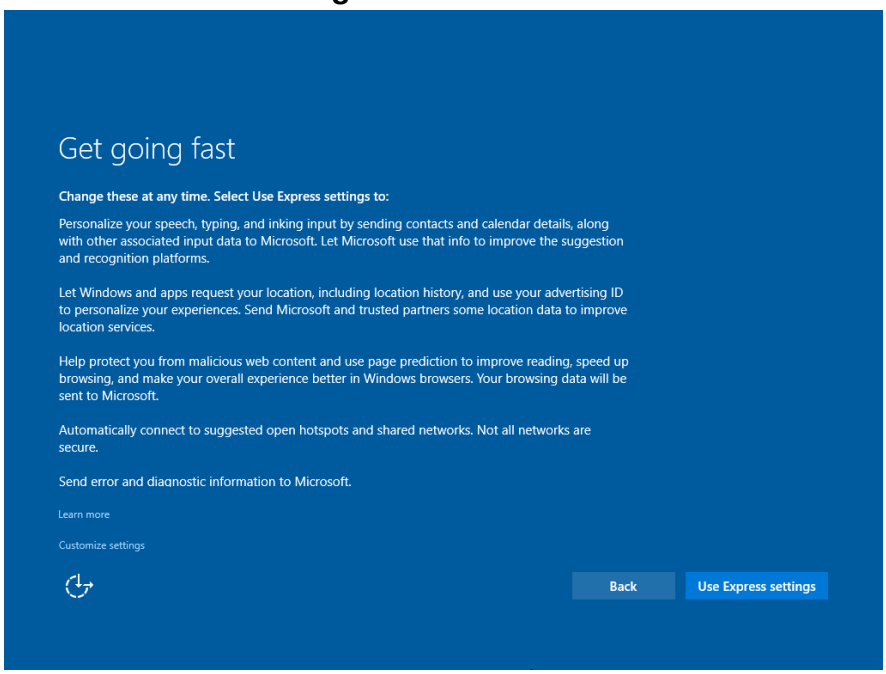


3. On the **Here's the legal stuff** screen, read through the disclosures, then tap **Accept**.

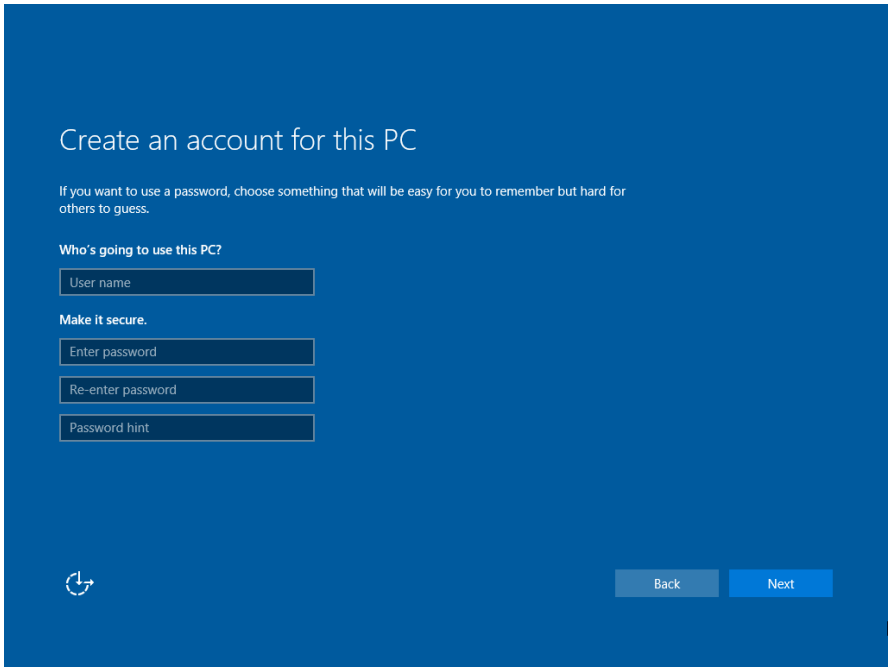


4. Windows will then try to connect to network. Tap **Skip this step** to continue without a wireless connection as you can then set up the network later.

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



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



7. The initial setup screens are complete, and the desktop is displayed.

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

Chapter 4: Operating the Device

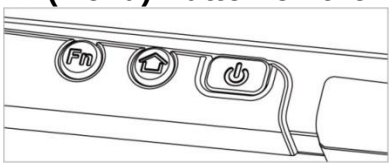
NOTE:
For user who may need SDK, please download the SDK from Winmate Download center website >> M101B/BL/BT >> Development Kit or check the Driver CD which is shipped with the tablet. Please notice that HF RFID reader, Barcode reader, and UHF RFID reader are optional module, please make sure user have ordered the module before using the SDK.
http://www.winmate.com/DownCenter/DownLoadCenter.asp?DownType=2207&OnlyContent=

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.

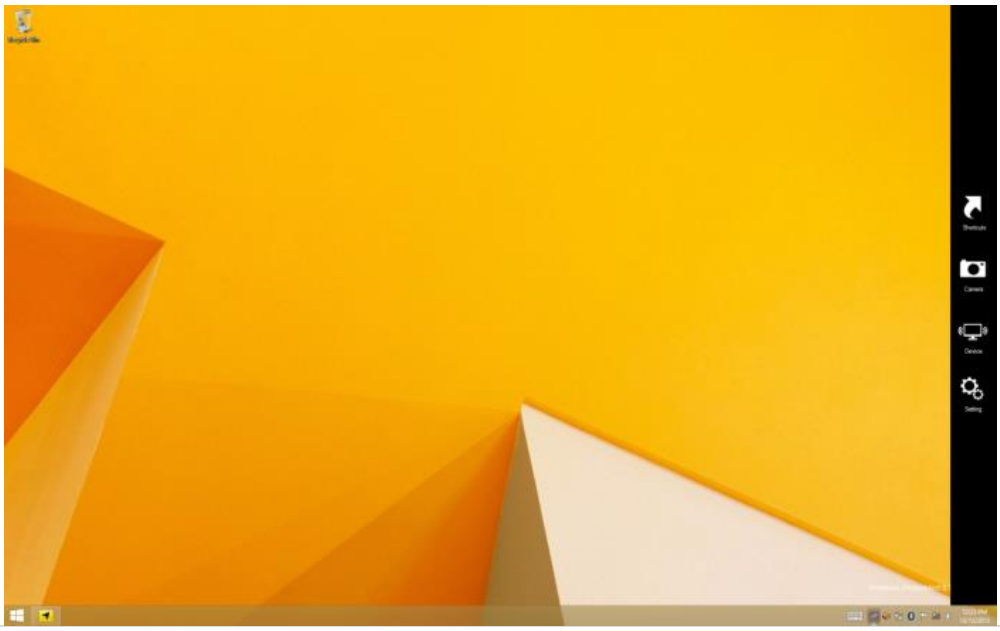
As Windows starts up, Hottab starts and runs in the background. To display the Hottab control utility, press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.

(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.



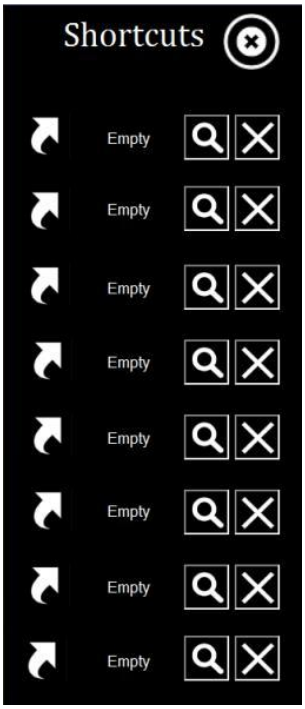
	Shortcuts button allows users to configure short cut to quickly access programs with a few tabs.
	Camera button allows users take a picture or record a video. User can also adjust setting related to camera in this menu option.
	Device button enables/disables tablet computer's hardware functions. The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

4.2 Shortcuts

Set up On-screen Software 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:

7. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
8. Tap on the **Shortcuts** button.
9. Tap on the button of any saved slot to remove
10. 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:

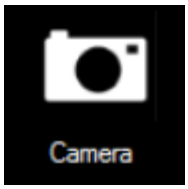
1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Shortcuts** button.
3. Tap on the saved shortcut items to access the saved programs.

4.3 Camera

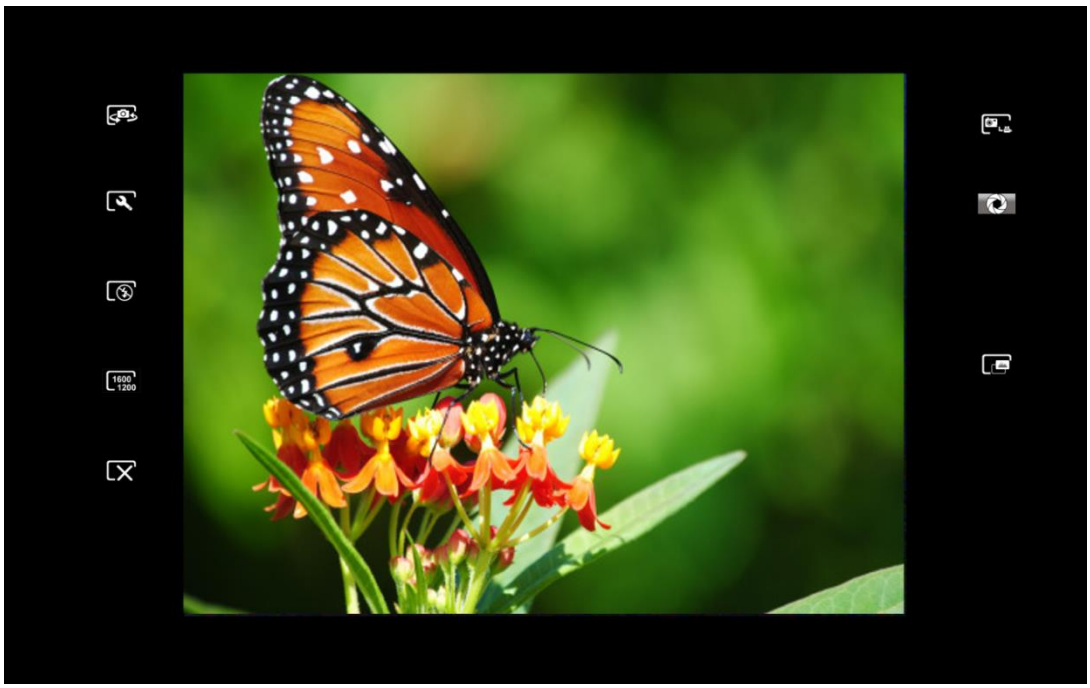
Using Camera Features

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:

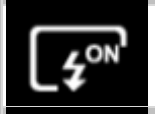
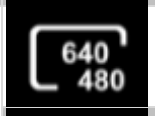
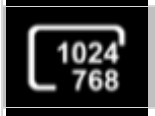
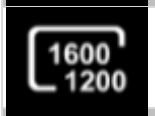
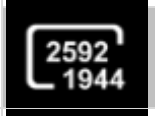
1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on "Device ON/OFF" button to check the built-in devices status.
3. Check the status color of the **Camera** icon:

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

4. If the Camera feature 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 located on the front panel OR click on the back arrow on top.
6. Tap on the **Camera** icon to go into the Camera menu. The Camera user interface will take up the entire screen as shown below:

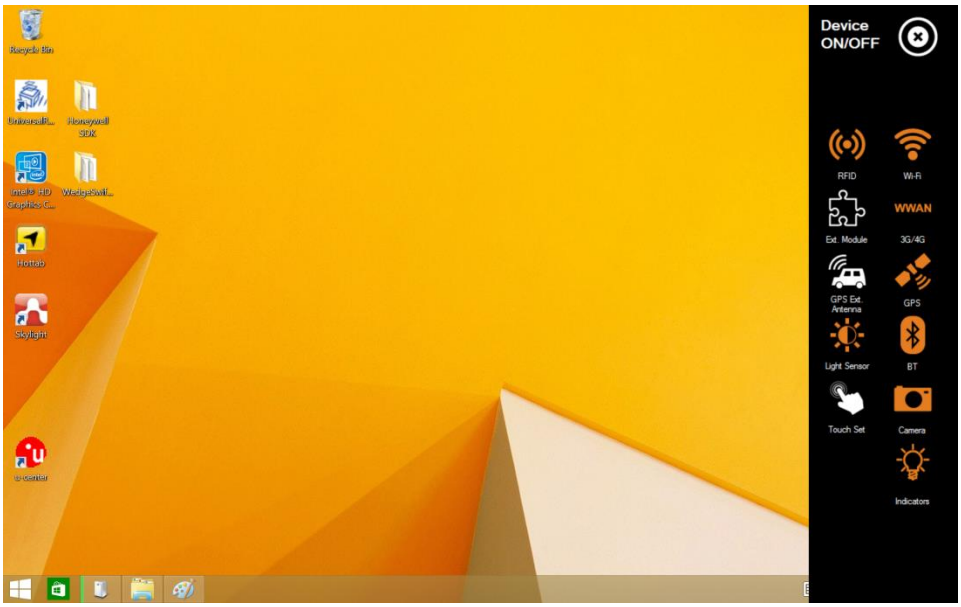


Description of Camera User Interface Buttons:

No	Item		Description
1	**Camera Switch**		Switch between front camera or rear camera.
2	**Settings**		Brings up Camera settings page. Available Settings: • **Picture Save:** modify/inspect saved location for pictures. • **Video Save Folder:** modify/inspect saved location for video recordings. • **Picture Quality:** Picture compression quality.
3	**Flash Control**		Disables LED Flash when taking picture.
			LED flash fires regardless of condition when taking pictures.
			LED Flash fires automatically in low light condition when taking pictures.
4	**Resolution**		Pictures will be saved at resolution of **640 x 480.**
			Pictures will be saved at resolution of **1024 x 768.**
			Pictures will be saved at resolution of **1600 x 1200.**
			Pictures will be saved at resolution of **2592 x 1944.**
5	**Exit**		Exits the Camera and hide Hottab Utility.
6	**Picture/Video Mode Switch**		Switches between picture taking or video recording.
7	**Shutter/Record** (automatically switch base on mode)		Camera Shutter Button. Tap to take picture.
			Video Record Button. Tap to Start, and press again to stop recording.
8	**Open Saved Location**		Opens the location where pictures and videos are saved in a window.

4.4 Device On/Off

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



4.4.1 Using 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
	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 Wireless WAN (3G/LTE)

For tablets equipped with wireless WAN (3G or 4G/LTE) card. Install SIM-card first.

To use the wireless WAN 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 **WWAN** icon:

Item	Status Color	Description
	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.
   Note: For the Windows 7 operating system, you also can check the Access Connections gauge, the Access Connections status icon, or the Access Connections wireless status icon in the Windows notification area.

4.4.3 Using GPS

To enable the wireless GPS feature, 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 **GPS** icon:

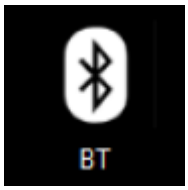
Item	Status Color	Description
	Orange	GPS is enabled.
	White	GPS is disabled.

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

4.4.4 Using Bluetooth

To enable the wireless Bluetooth feature, 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 **Bluetooth** icon:

Item	Status Color	Description
	Orange	Bluetooth is enabled.
	White	Bluetooth is disabled.

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

NOTE:
If user uses Win 7 OS, need to adjust Bluetooth setting, right click on the Bluetooth device which user want to pair, and choose the **service**.

4.4.5 Turn 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, 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 **Indicator** icon:

Item	Status Color	Description
	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).

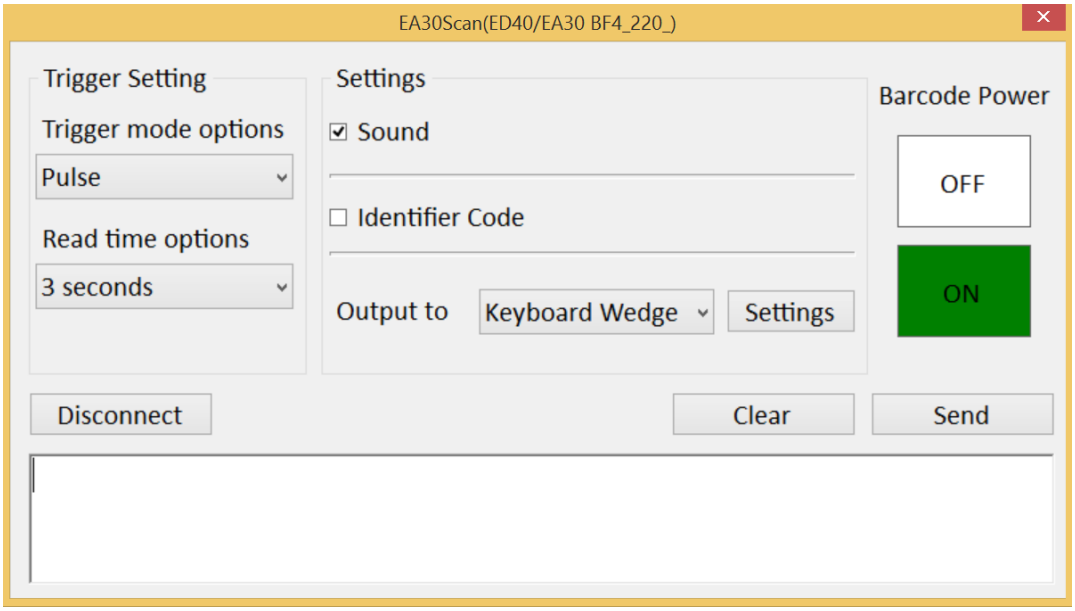
4.4.6 Using Barcode Reader

IMPORTANT

The 2D/1D Barcode Reader is optional for M101B Tablet PC and is not re-workable by the end user. To use this feature, please make sure the tablet PC is built-in barcode reader before use, or contact our sales contact window for more details.

To enable the Barcode Reader feature, perform the following procedure:

1. Open Hottab utility by pressing (Menu) Button located on the front panel, OR launching Hottab Utility application.
2. Choose "**Device ON/OFF"** and click on "**Barcode"**, and the setting utility will show up as below:



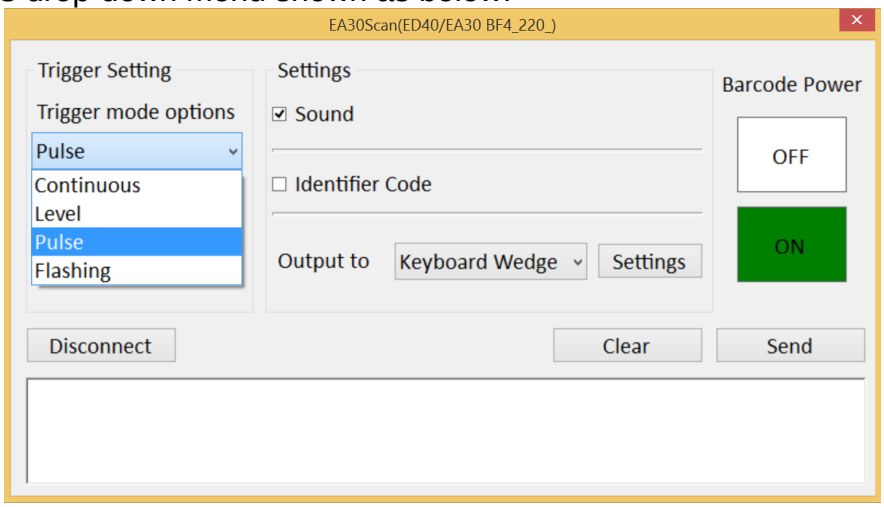
3. Tap on the **ON** button.
4. Check the status color of the **ON** button is green, and the status color of the Barcode icon on the Hottab menu is orange at the same time.

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

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

Trigger Setting

Item	Description
Trigger mode options	User can define the barcode scanner trigger mode from **Trigger mode options** drop-down menu shown as below.



Continuous

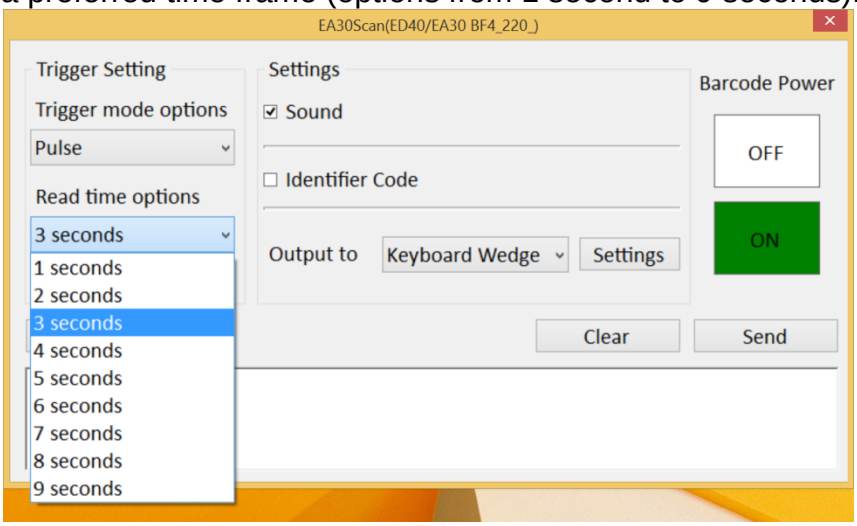
Under **Continuous** mode, the barcode scanner processes auto-scan continuously. The scanning light and pattern will be always on.

Level

Under **Level** mode, the barcode scanner follows trigger button behavior. The scanning light will be on when the Fn2 button is triggered, and off when the barcode is successfully read or the Fn2 button is released.

Pulse

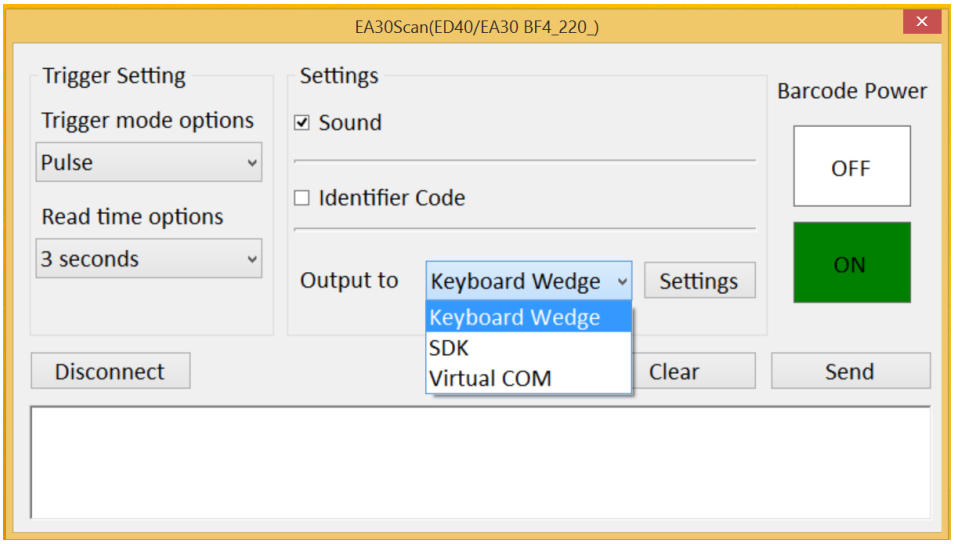
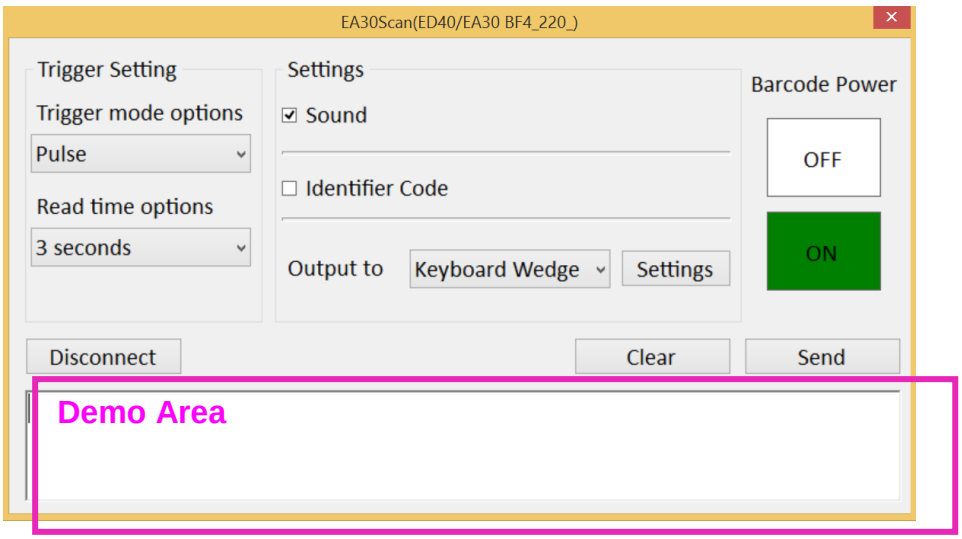
Under **Pulse** mode, user can define the scanning time after each trigger. The scanning light will be on when the Fn2 button is triggered, and off when the barcode is successfully read or the defined read time ends. To set up the scanning time, tap on the **Read time options** drop-down menu and choose a preferred time frame (options from 1 second to 9 seconds).

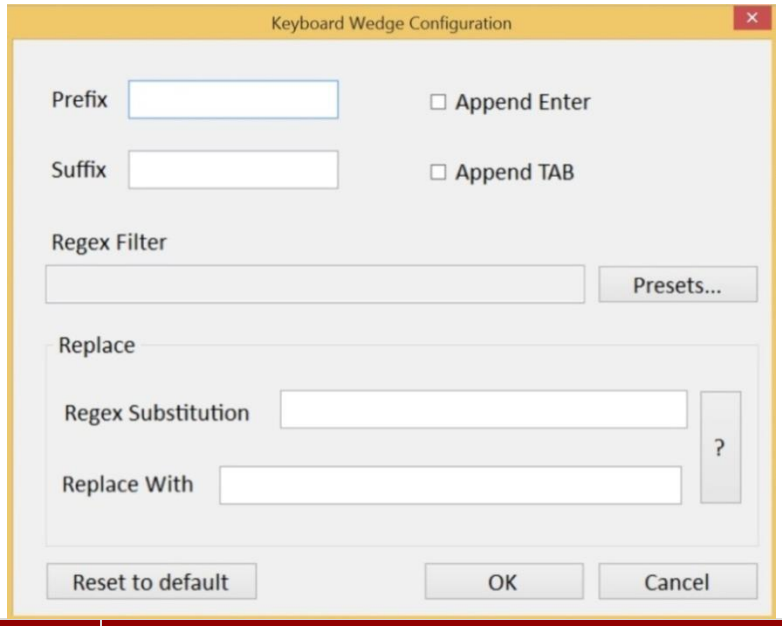


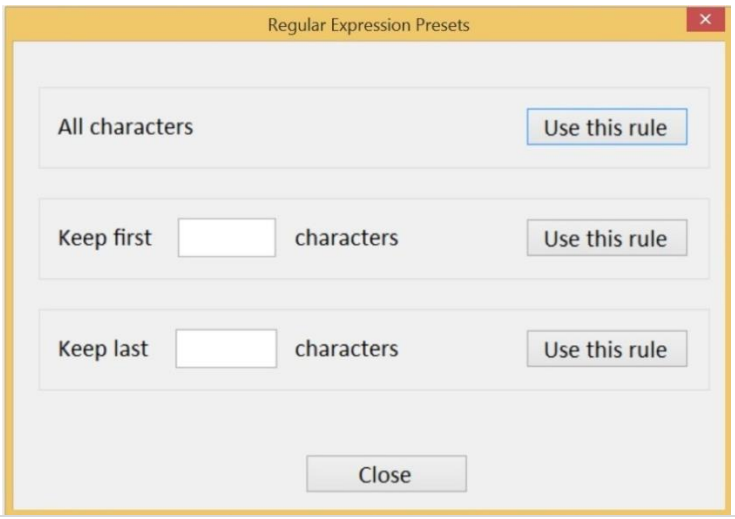
Flashing

Under **Flashing** mode, the scanning light is flashing, and the barcode scanner processes auto-scan with the same frequency.

Settings

Item	Description
Sound	The **Sound** check box defines whether a beep sound will come with the data scanning.
Identifier Code	The **Identifier Code** check box defines whether to filter Application Identifiers from the scanned data. Some barcode types, such as EAN-128, use Application Identifiers to include additional data. User can disable **Identifier Code** check box to ignore specific characters.
Output to	This setting defines the output type of the scanned data. Here are the options available:  **Keyboard Wedge** Under this setting, the data scanned is sent like keyboard data. The scanned data can be output directly to the demo area below this window, or user can also open other utility, such as Office Word or Notepad files, for data input.  **Note:** notice that the input method should support the scanned character. User can also tap on the **Settings** button for further details settings.



Item	Description
Prefix	User can type in this field to define the characters BEFORE the data scanned.
Suffix	User can type in this field to define the characters AFTER the data scanned.
Append Enter	The check box user can 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. 
Replace	User can define specific characters to be replaced with preferred characters automatically. When the characters defined in **Regex Substitution** is scanned, the data will be replaced with the one filled in **Replace with.**
Reset	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 webs
>> M101B/BL/BT >> Development Kit or check the Driver CD whic

	shipped with the tablet. http://www.winmate.com/DownCenter/DownLoadCenter.asp?DownType=2207&yContent= **Virtual COM** User can also choose **Virtual COM** to transfer scanned data to the defined COM port.
Disconnect	User can tap on the **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.

Setting the 1D/2D Barcode Scanner Symbologies

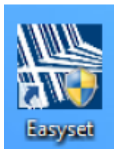
The barcode scanner is shipped with default settings shown below. If the default setting suits the usage requirement, setting symbologies is not necessary.
Symbologies Default Settings:

	Symbologies	Default setting
1D	UPC-A	Enable
	UPC-E	Enable
	EAN-8	Enable
	EAN-13	Enable
	UPC-E1	Disable
	GS1 DataBar Omni-Directinal	Disable
	GS1 DataBar Limited	Disable
	GS1 DataBar Expanded	Disable
	Code 39	Enable
	Code 128	Enable
	ISBT 128	Disable
	GS1-128	Enable
	Interleaved 2 of 5	Disable
	Matrix 2 of 5	Disable
	Standard 2 of 5	Disable
	Codabar	Disable
	Code 93	Disable
	Code 11	Disable
	MSI	Disable
	Plessey	Disable
	Telepen	Disable
	Australian Post	Disable
	BPO	Disable
	Canada Post	Disable
	Dutch Post	Disable
	Japan Post	Disable
	PostNet	Disable
	Sweden Post	Disable
2D	Data Matrix	Enable
	PDF 417	Enable
	Micro PDF 417	Disable
	Codablock A	Disable
	Codablock F	Disable
	Maxicode	Disable
	QR Code	Enable
	Aztec	Disable
	GS1 Composite A/B	Disable
	GS1 Composite C	Disable

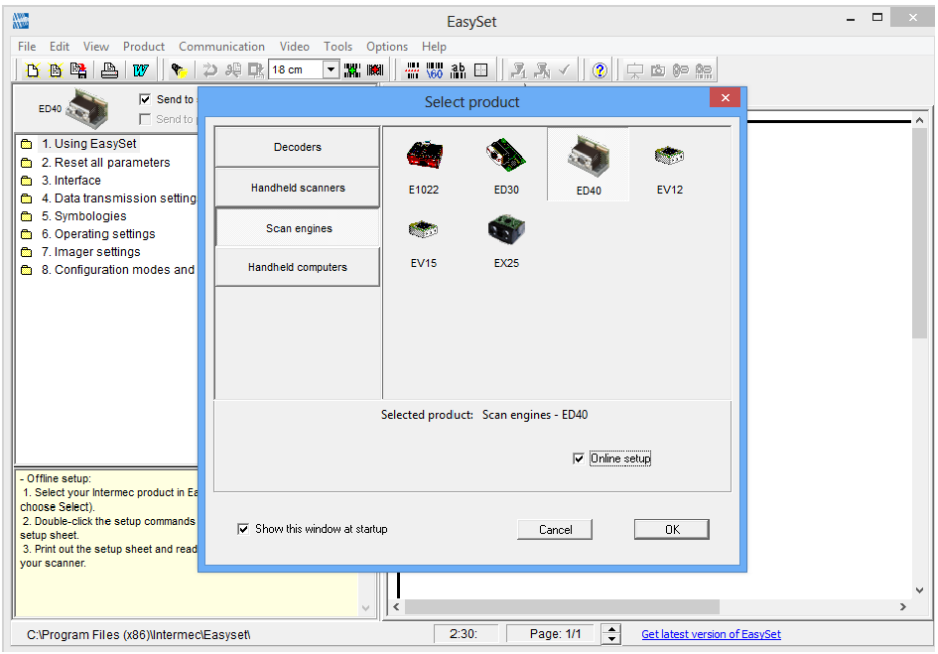
If user wants to change the default setting of symbologies or other advanced setting, please

(1) Refer to Page 49 to **disconnect** the Barcode Reader from Hottab.

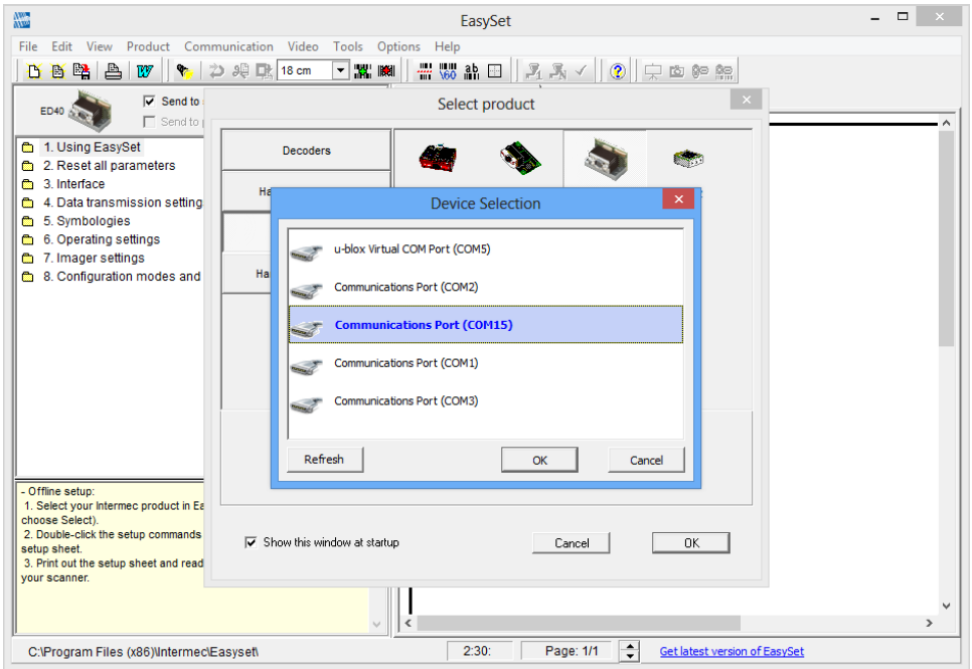
(2) Download "**Easyset**" barcode scanner configuration application from Intermec website, and execute it by tapping on its icon :



(3) When "**Easyset**" application launches, a "**Select product**" on-screen prompt will show up. Select "**Scan engines**" and pick "**ED40**". Make sure the "**Online setup**" option is checked, and select "**OK**" as shown in the screen capture below:



(4) Another "**Device Selection**" on-screen prompt will show up. Select "**Communications Port (COM15)**" and select "**OK**" as shown in the screen capture below:



(5) User can select Barcode code type of interest by pressing "**5. Symbologies**". in the navigation pane, and it will show its configuration options.

NOTE:

- For more information on how to use the "**EasySet**" application, please refer to the complete EasySet User Manual from Intermec: http://intermec.custhelp.com/app/answers/detail/a_id/5760

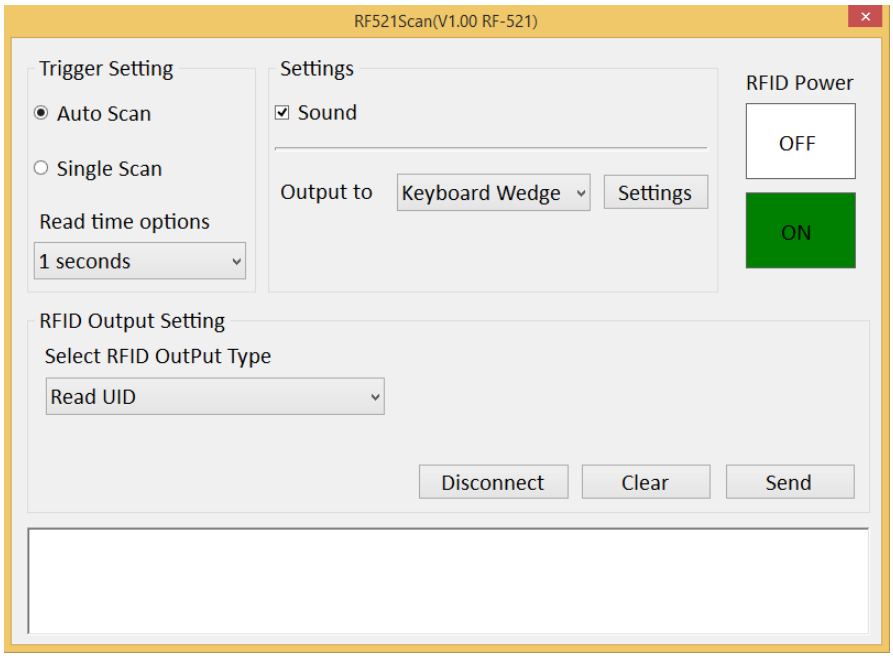
4.4.7 Using HF RFID Reader

IMPORTANT

The HF RFID Reader is optional for M101B 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, perform the following procedure:

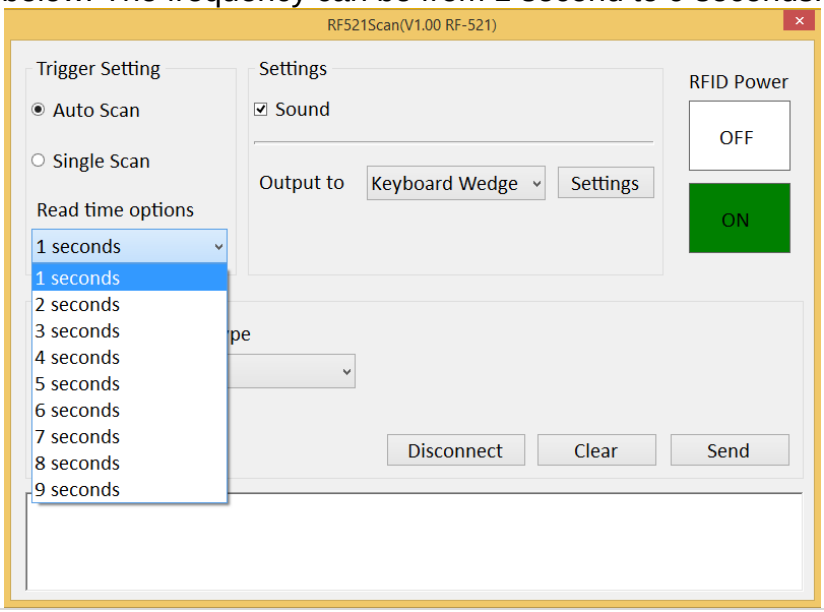
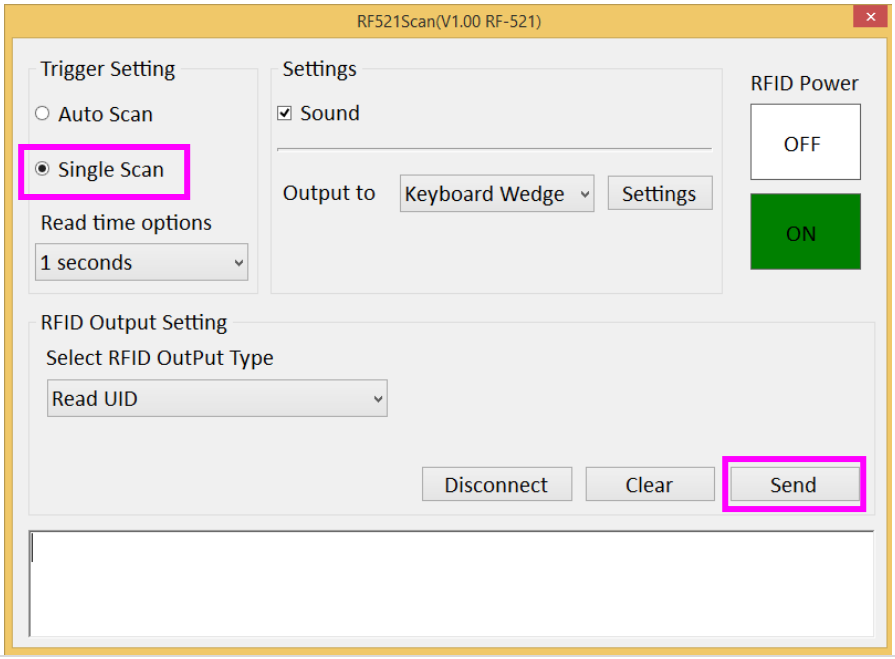
1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Tap on **RFID**, and the setting utility will show up as below:



1. Tap on the **ON** button.
2. 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.

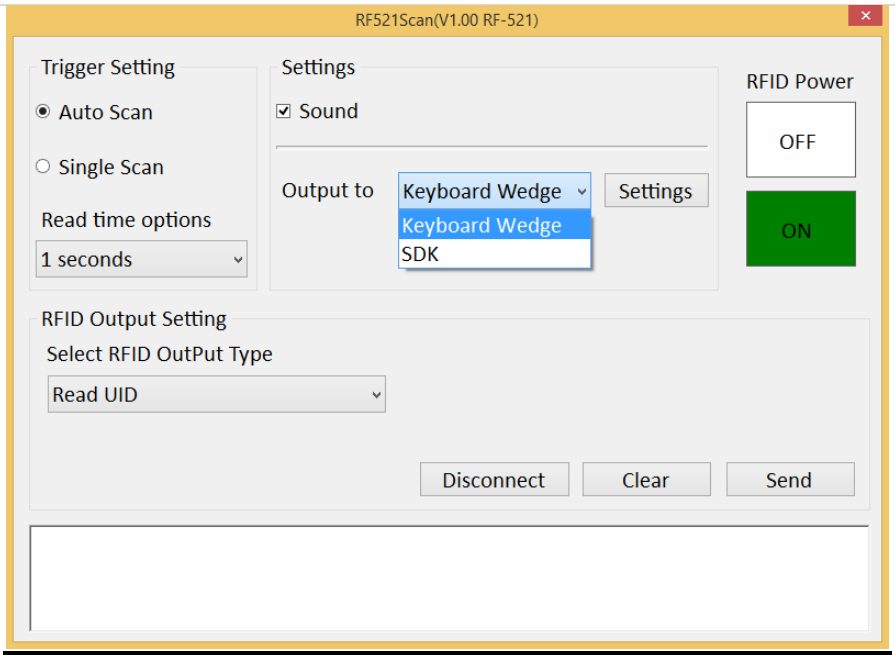
Item	Status Color	Description
	Orange	HF RFID Reader is enabled.
	White	HF RFID Reader is disabled.

Trigger Setting

Item	Description
Auto Scan	The default setting for RFID trigger is Auto Scan. Under this setting, the RFID Reader will always be ready to scan tags. 1. When the RFID tag is detected from RFID antenna, the data will be read automatically. 2. User can define the RFID scanning frequency from the drop-down menu shown as below. The frequency can be from 1 second to 9 seconds. 
Single Scan	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”. 

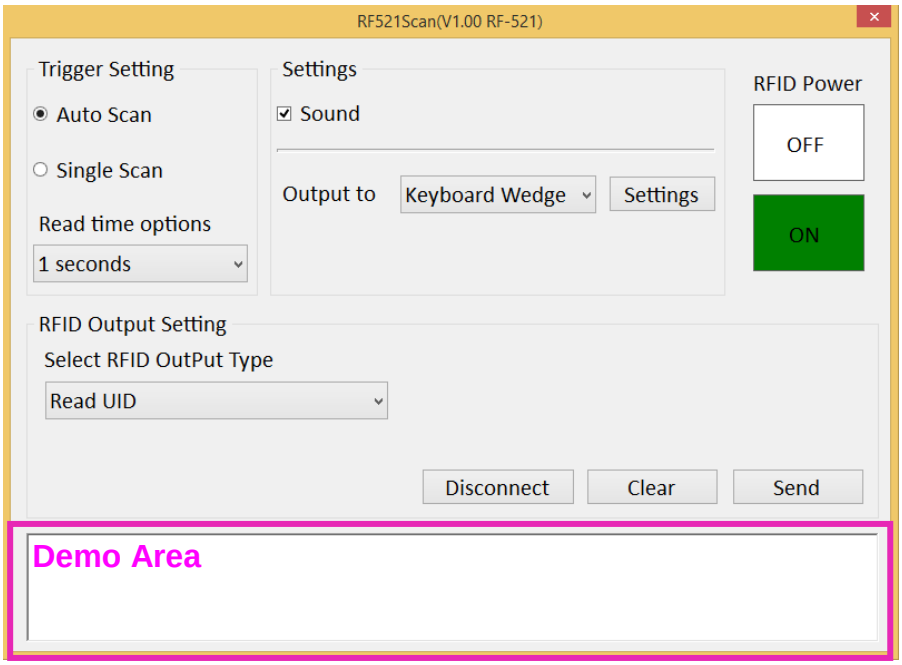
Settings

Item	Description
Sound	The **Sound** check box defines whether a beep sound will come with the data scanning.
Output to	This setting defines the output type of the scanned data. Two options are available:

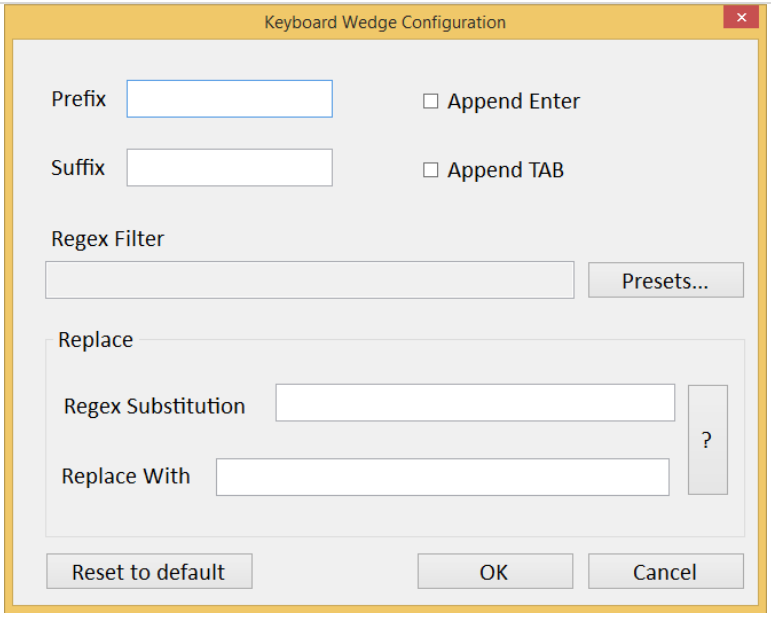


Keyboard Wedge

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



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



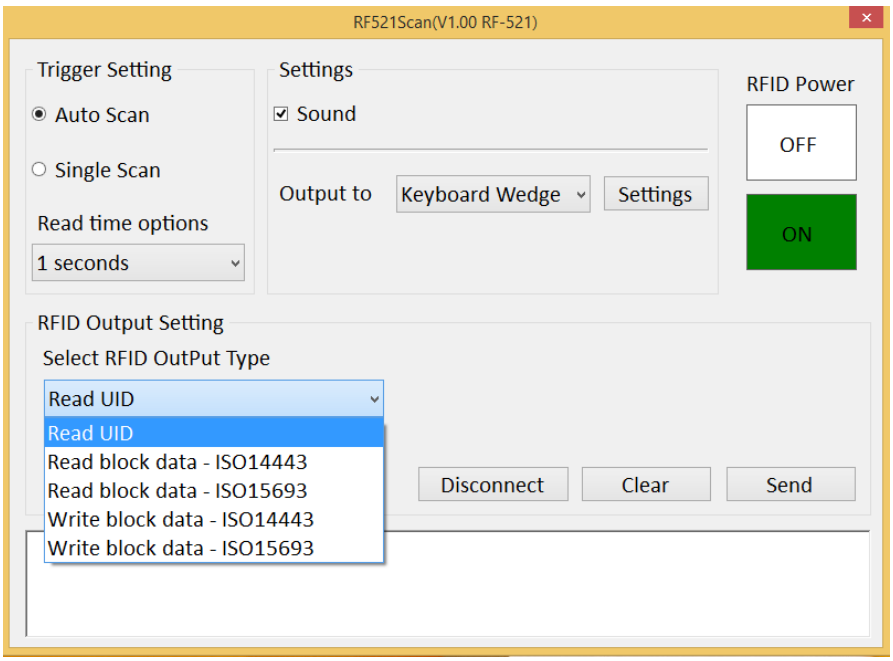
Item	Description
Prefix	User can type in this field to define the characters BEFORE the data scanned.
Suffix	User can type in this field to define the characters AFTER the data scanned.
Append Enter	The check box user can defines to append an “Enter” which is followed by the characters.
Append TAB	The 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.
Replace	User can define specific characters to be replaced with preferred characters automatically. When the characters defined in **Regex Substitution** is scanned, the data will be replaced with the one filled in **Replace with.**
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 >> M101B/BL/BT >> Development Kit or check the Driver CD which is shipped with the tablet.
http://www.winmate.com/DownCenter/DownLoadCenter.asp?DownTypyContent=

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	User can tap on the **Disconnect** button to stop the connection with built-in HF RFID reader. *To recover the connection, please turn off the module from setting UI and then turn on the module again.

4.4.8 Turn on/off GPS External Antenna

IMPORTANT
The vehicle dock of M101B 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, 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 **GPS Ext. Antenna** icon:

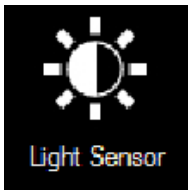
Item	Status Color	Description
	Orange	GPS Ext. Antenna is enabled, and using external antenna if available
	White	GPS Ext. Antenna is disabled, and using built-in antenna

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 Light Sensor

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

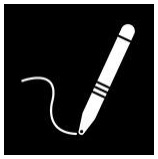
1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **Light Sensor** icon:

Item	Status Color	Description
	Orange	Light Sensor is enabled.
	White	Light Sensor is disabled.

4.4.10 Changing Touchscreen Modes

The tablet's advanced capacitive touchscreen has 3 built-in operating modes, for users to choose under different usage scenarios:

Mode	Usage Scenario

Hand/Rain Mode	The Hand/Rain mode is the default operating mode of the touchscreen. Under this mode, the touchscreen is set to have the ability to reject false touch inputs while liquid is present on the touchscreen. Once the liquid is removed from the touchscreen, touch inputs from bare fingertips will continue to operate. Support the following input solutions: • Active stylus w/ palm rejection • Rubber Tip passive stylus • Finger
 **Stylus Mode**	Under the Stylus mode, the touchscreen is set to have the ability to pick up touch inputs from the fine-tip passive capacitive stylus that is shipped with the tablet. Touch inputs from bare fingertips will also continue to operate. Support the following input solutions: • Fine-tip passive stylus w/ palm rejection • Active stylus w/ palm rejection • Rubber Tip passive stylus • Finger
Glove Mode	Under the Glove mode, the touchscreen is set to have the ability to pick up touch inputs while the user is operating the touchscreen with gloves on. Touch inputs from bare fingertips will also continue to operate. Support the following input solutions: • Glove • Rubber Tip passive stylus • Finger

There are 2 ways to switch between the different touchscreen operating modes:

(1) Via the built-in HotTab utility

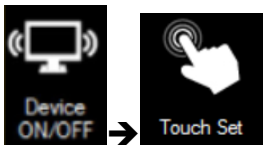
(2) Via the programmable function buttons

Switch via Built-in HotTab Utility

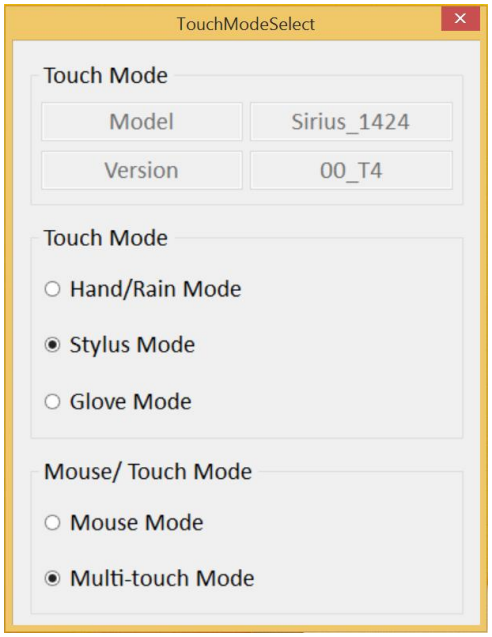
To switch between the different touchscreen modes via the HotTab utility, perform the following procedure:

1. Open HotTab utility by pressing (Menu) Button located on the front panel, OR launching HotTab Utility application.

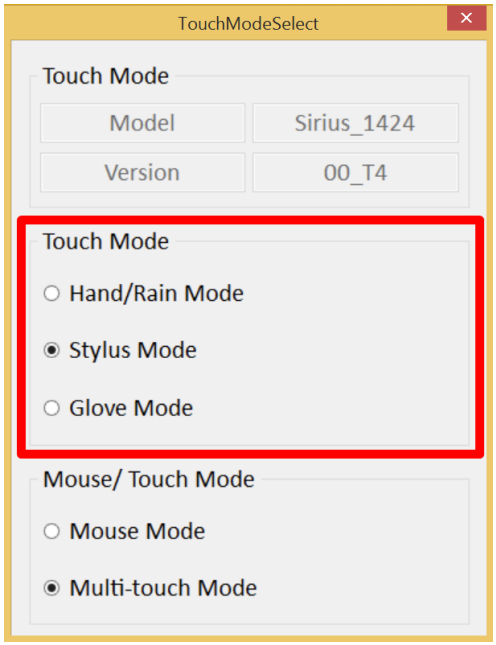
2. Choose "**Device ON/OFF"** and then click on "**Touch Set"** icon



3. The Touch Mode Select utility will be shown as below:

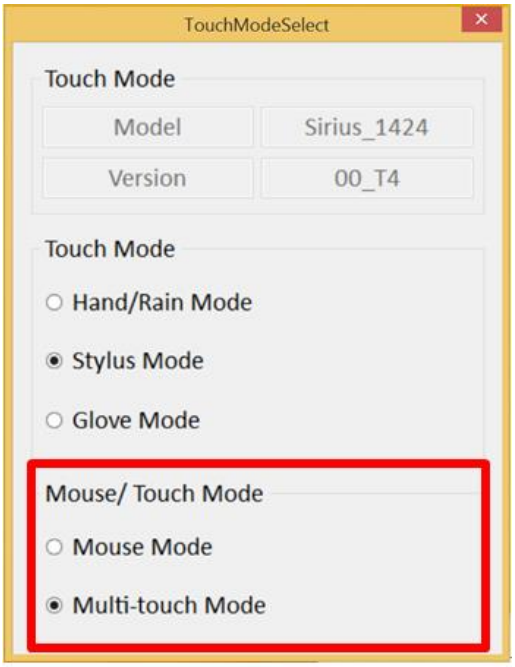


4. Under the **“Touch Mode”**, select the desired touch modes by tapping on the radio button.



5. Now the touchscreen mode would behave as configured.

Here’s also additional Touch related setting to switch the touchscreen input between mouse mode with cursor, or with multi-touch mode:

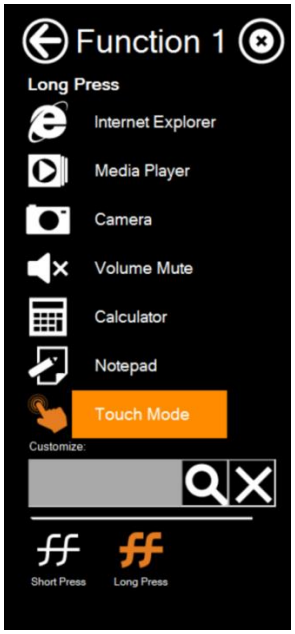


Item	Description
Mouse Mode	Single touch point supported, with mouse cursor shown
Multi-touch Mode	The default setting of the touch screen supports multi-touch mode (up to 10 points)

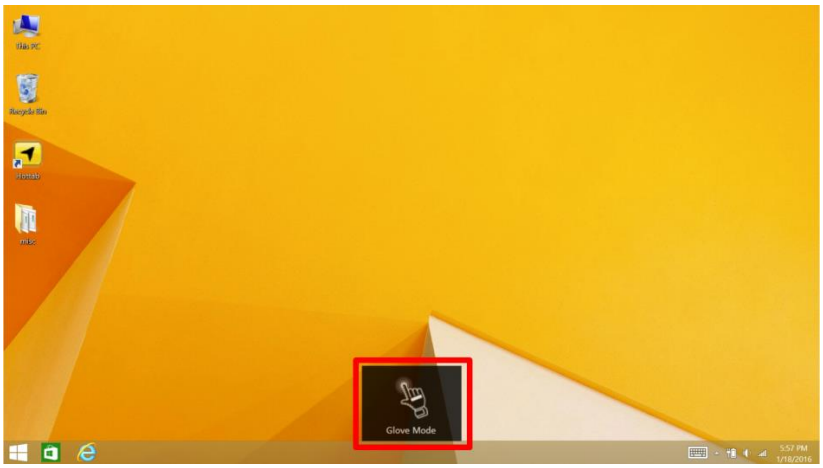
Switch via Programmable Function Buttons:

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:

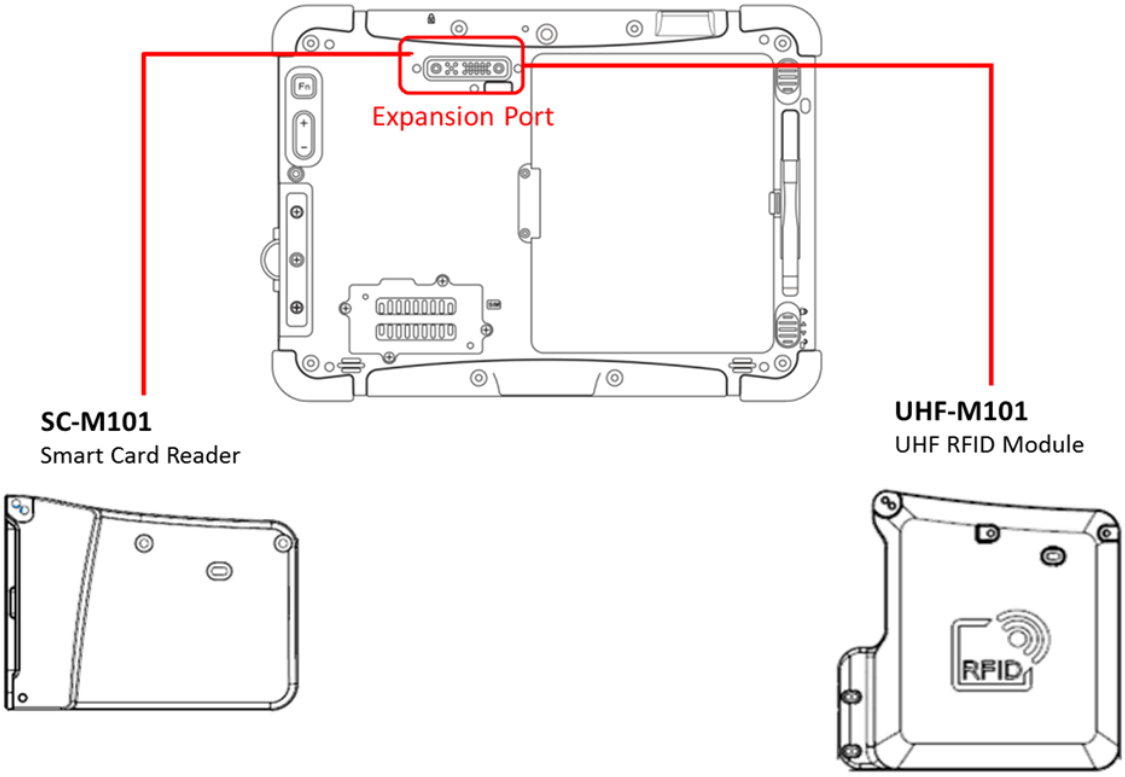


4.4.11 Using Expansion Module

The Ext. Module function allows users to choose either UHF RFID Reader or Smart Card Reader.

IMPORTANT

The Expansion Port is optional for M101B Tablet PC and is not re-workable by the end user. To work with Add-on module, please make sure the tablet PC is built-in expansion port before use, or contact our sales contact window for more details.



CAUTION **Do not open when the expansion port is not used.**

To enable the add-on module from expansion port, perform the following procedure:

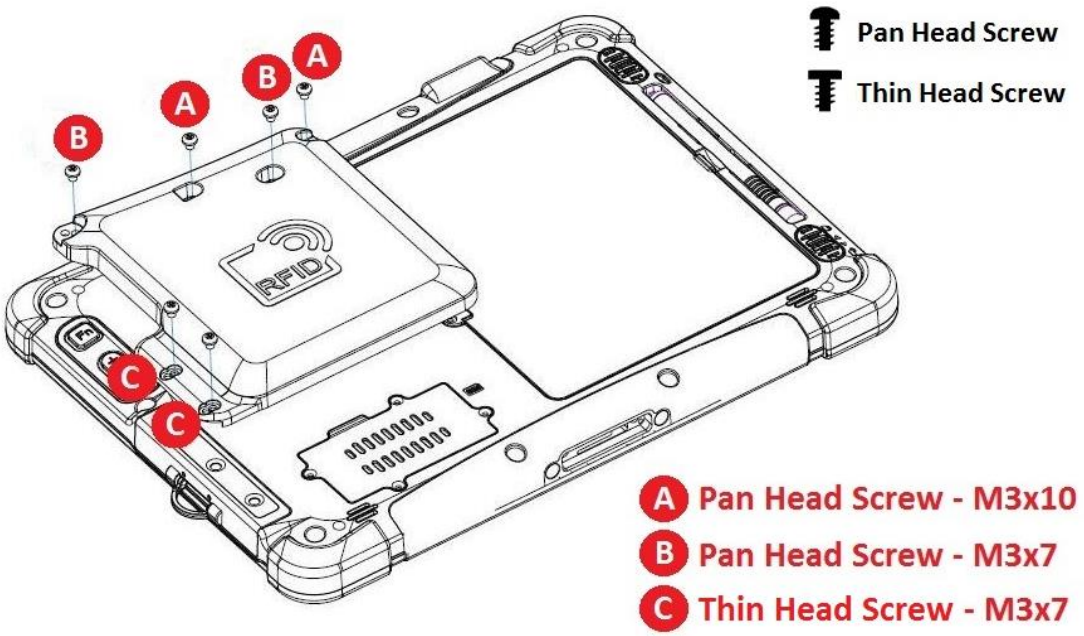
1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **Ext. Module** icon:

Item	Status Color	Description
	Orange	Expansion Module is enabled.
	White	Ext. Module is disabled.

4.4.12 UHF RFID Reader Module

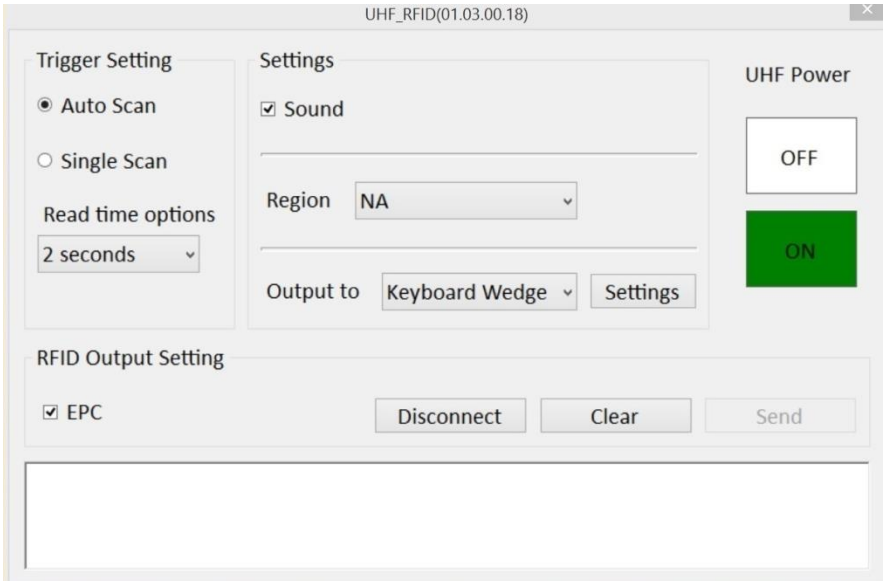
4.4.12.1 How to Install

1. Remove expansion port cover from the rear side of Tablet PC.
2. Remove the top two screws of the I/O cover.
3. Align the pogo pin on UHF RFID module to the expansion port of Tablet PC; screw to fix the module on tablet.



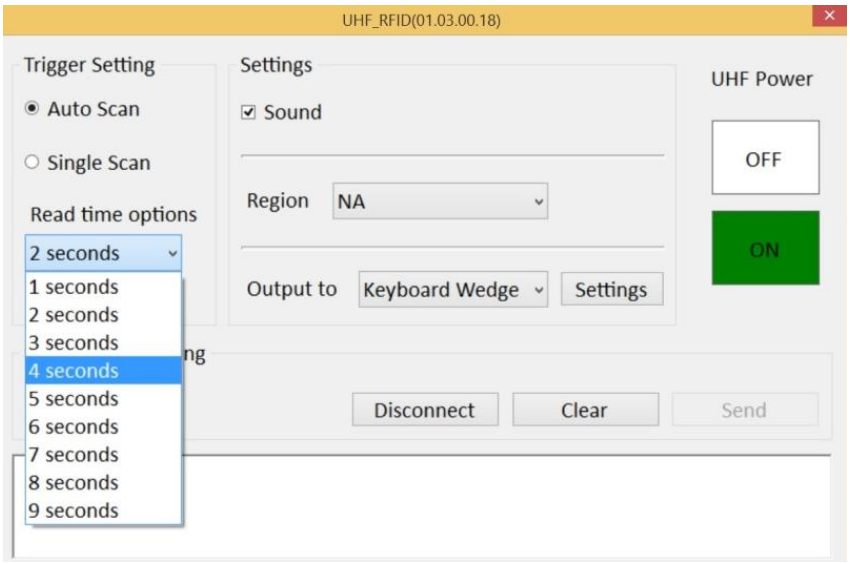
4.4.12.2 How to Use

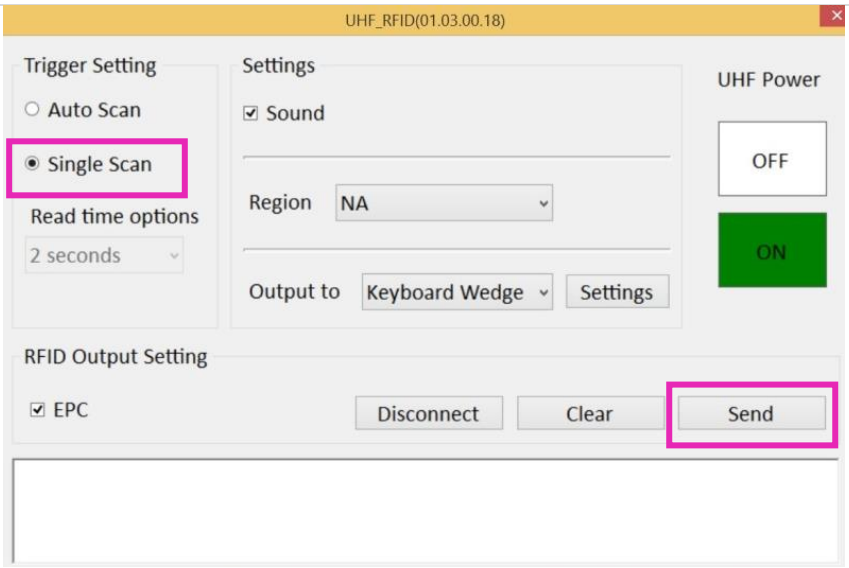
1. Open Hottab utility by pressing (Menu) Button located on the front panel, OR launching Hottab Utility application.
2. Choose "**Device ON/OFF"** and click on **"Ext. Module"**, and the setting utility will show up as below:



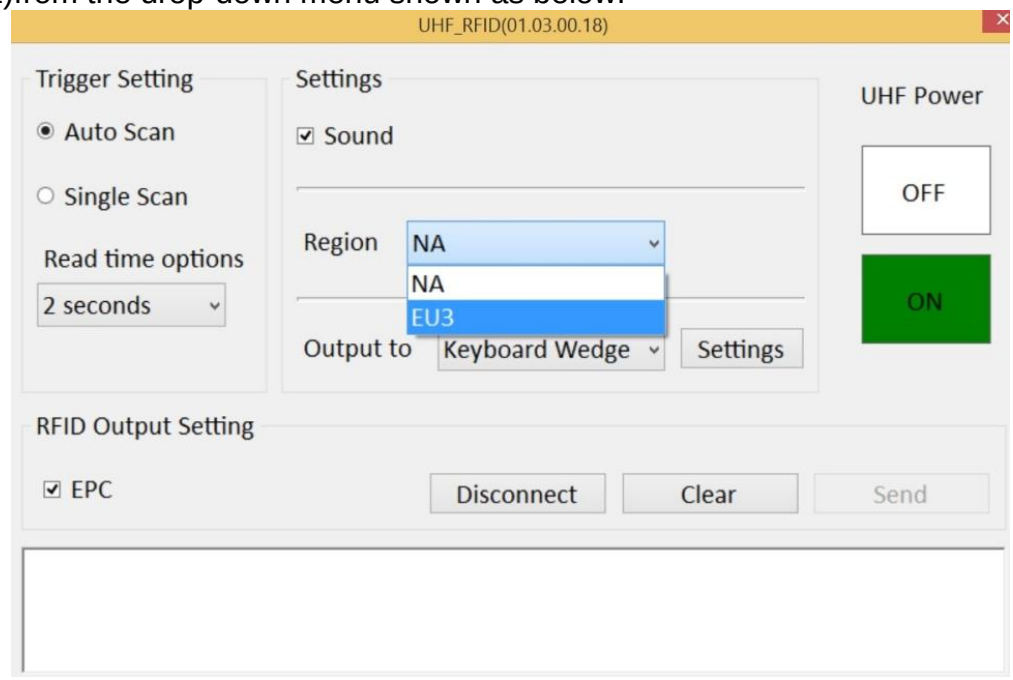
3. Tap on the **ON** button.
4. Check the status color of the ON icon is green.

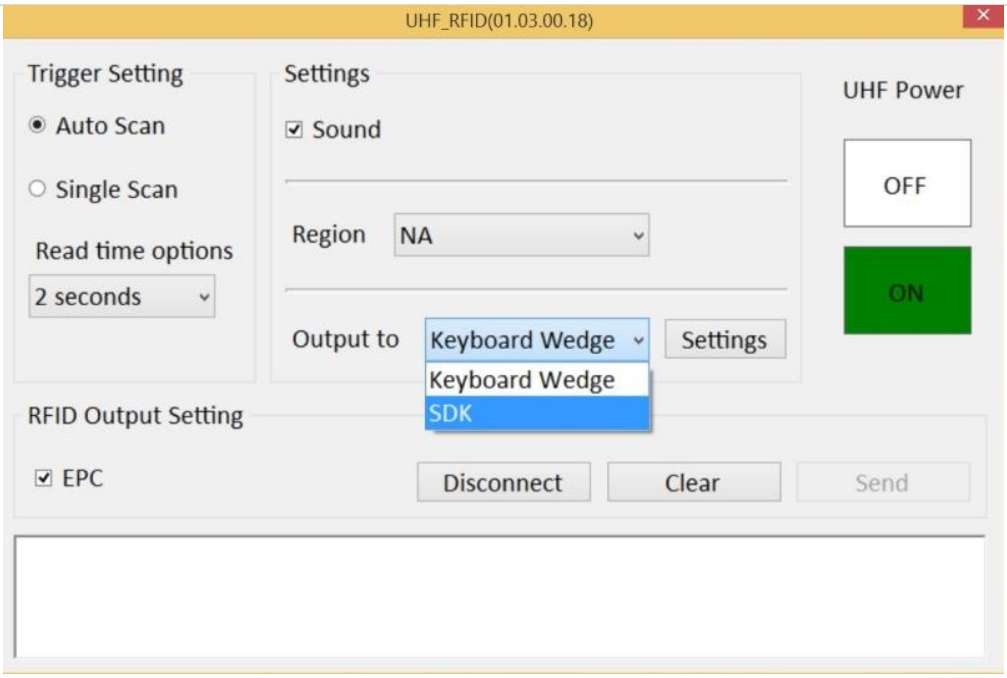
Trigger Setting

Item	Description
Auto Scan	The default setting for UHF RFID trigger is Auto Scan. Under this setting, the UHF RFID Reader will always be ready to scan tags. 1. When the UHF RFID tag is detected, the data will be read automatically. 2. User can define the UHF RFID scanning frequency from the drop-down menu shown as below. The frequency can be from 1 second to 9 seconds. 
Single Scan	User can also define the UHF RFID Reader scanning as SINGLE SCAN. Under this setting, the UHF RFID Reader will be triggered only when user click on “Send”.



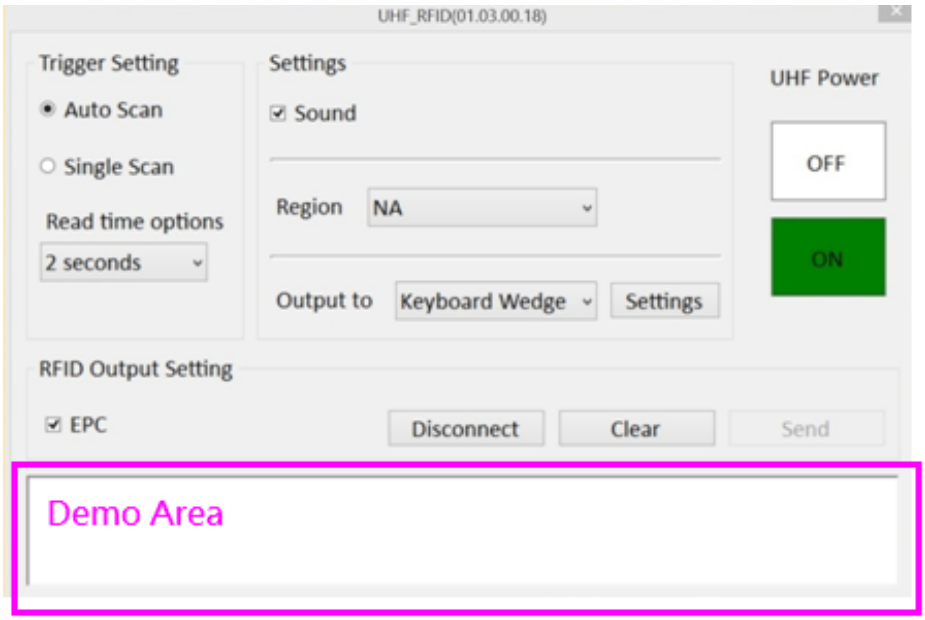
Settings

Item	Description
Sound	The **Sound** check box defines whether a beep sound will come with the data scanning.
Region	Basing on different regional regulations about UHF RFID frequencies, user can switch frequency to NA (North America, 902-928 MHz) or EU3 (Europe, 865-868 MHz)from the drop-down menu shown as below. 
Output to	This setting defines the output type of the scanned data. Two options are available:



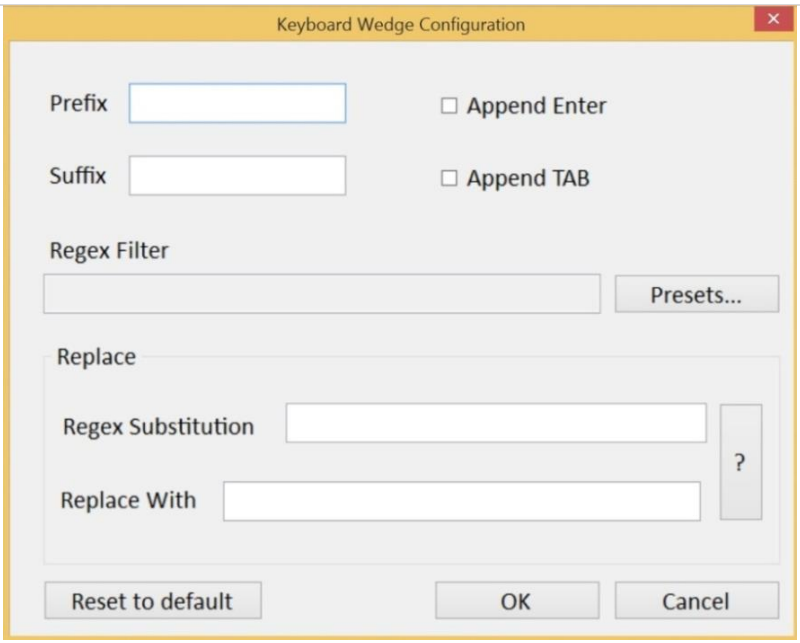
Keyboard Wedge

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



Warning:
Please notice that the input method should support the scanned character.

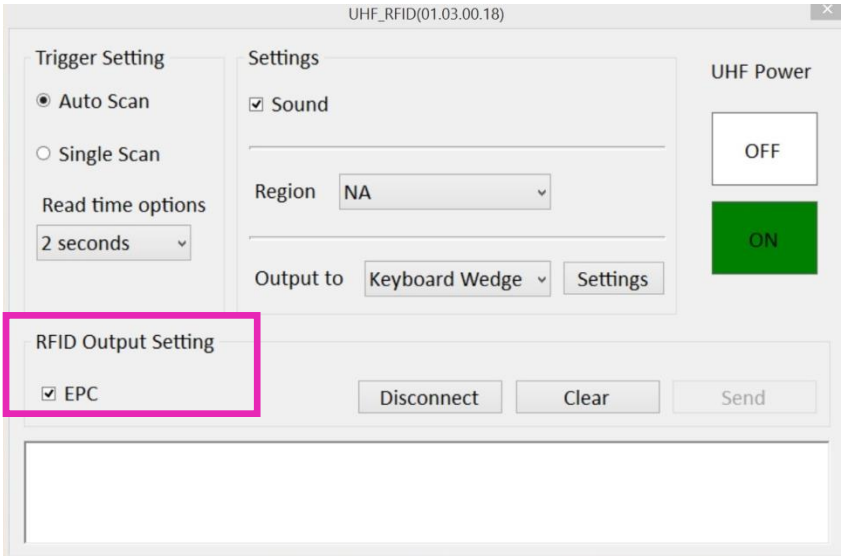
User can also tap on the **Settings** button for further details settings.



Item	Description
Prefix	User can type in this field to define the characters BEFORE the data scanned.
Suffix	User can type in this field to define the characters AFTER the data scanned.
Append Enter	The check box user can 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.
Replace	User can define specific characters to be replaced with preferred characters automatically. When the characters defined in **Regex Substitution**is scanned, the data will be replaced with the one filled in **Replace with.**
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 >> M101B/BL/BT >> Development Kit or check the Driver CD which is shipped with the tablet. http://www.winmate.com/DownCenter/DownLoadCenter.asp?DownTypyContent=

RFID Output Setting

Item	Description
EPC	The EPC check box defines whether to show the complete information of EPC (Electronic Product Code), including 1. The identifiers of the object(s) or other entities that are the subject of the event. 2. The date and time when the event took place, and the local time zone in effect. 3. The identifier of the location at which the event occurred. 4. The Information about the business context. 
Disconnect / Connect	User can tap on the **Disconnect** button to stop the connection with UHF RFID Reader. *To recover the connection, please turn off the module from setting UI and then turn on the module again.

NOTE:

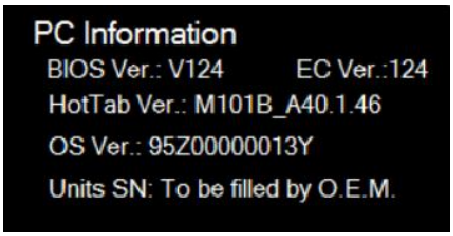
- For more information on setting, please download “Universal Reader Assistant” UHF module configuration application from Thing Magic website.

4.5 Settings

This Hottab menu option provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings. Perform the following procedure to access the Hottab Setting menu:

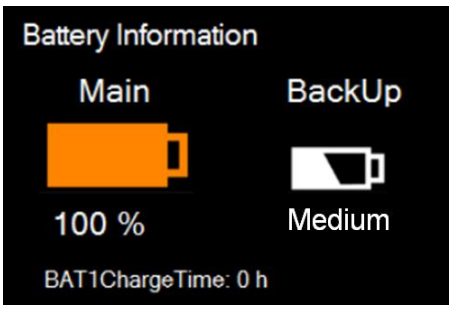
1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Settings** button.
3. Below shows the items listed in Settings Menu.

4.5.1 PC Information



This section provides user device information in regards to BIOS Version, EC Versions, Hottab Versions, OS Versions, as well as Unit Serial Number, shown in the picture sample.

4.5.2 Battery Information



This section provides user battery Information.
Main Battery:
The main battery icon displays the battery level in percentages (0 to 100%).
Backup Battery: (For M101B)
The backup battery used for battery hot swapping displays its state in text with the following meanings.

Status	Description
High	Backup battery is fully charged, and can be used for hot swapping
Medium	Backup battery level is intermediate, but can be used for hot swapping
Low	Backup battery level is low, and hot swapping is not recommended.

Battery Charge Time:
The Battery Information also displays estimated time needed to fully charge the main battery when AC adapter is plugged in. Meanwhile, the backup battery is charged by the main battery.

4.5.3 Using the Physical Function Keys (Hotkeys)

The function key mapping menu option allows user to change the physical function buttons, Fn1 and Fn2. Users can change what application will be launched with short press or long press of keys.

To configure function key mapping, perform the following:

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 **Setting** button.
3. Tap on function key icon for the corresponding key that you want to change.
4. At top of utility, it will say “Short Press” or “Long Press” to indicate what type of press is being configured
5. You can switch what type of press you want to configure by tapping on the “Short Press” or “Long Press” icon at the bottom of the utility window.
6. Pick from list of preset applications by tapping on the application icons OR customize which application to execute using the picker.

Using the Custom picker:

1. Tap the icon to reveal browser window
2. Navigate to the desired executable to map to function key
3. Tap on “Done” to save selection.

To map the function key to another application:

1. Tap on the icon to remove connection to the original application, and pick again tapping on icon.

Using the physical function keys:

1. While operating the tablet, click on the physical function keys to activate functions mapped via the setup in this section.

Chapter 5: Frequently Used Settings

5.1 Screen Resolution Scaling and Setting

The M101B has a high resolution 1920 x 1200 display which is perfect for viewing image, video, or other applications, however, Windows user interface (icons, buttons, and other user interface elements) may be too small to read and operate at the default Windows settings. By changing the display scaling or the display resolution setting of the device, you can adjust the size of the text and other items on the desktop for optimal viewing. Display scaling is the recommended method because it has the effect of adjusting user interface element without having to move away from the optimal resolution setting at 1920 x 1200. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.

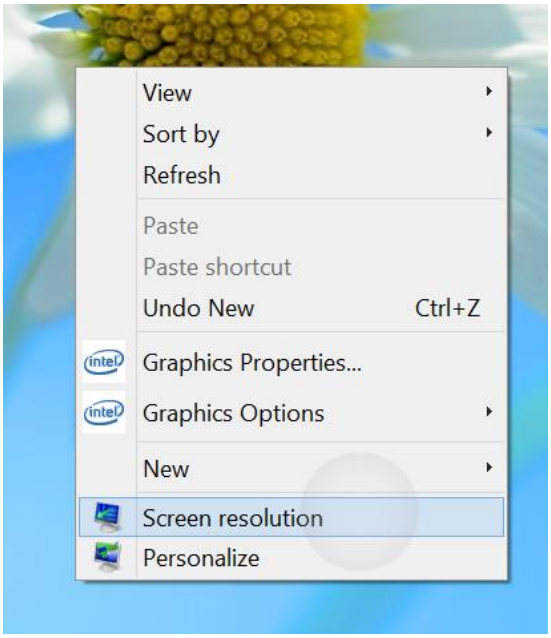
NOTE:

- 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.

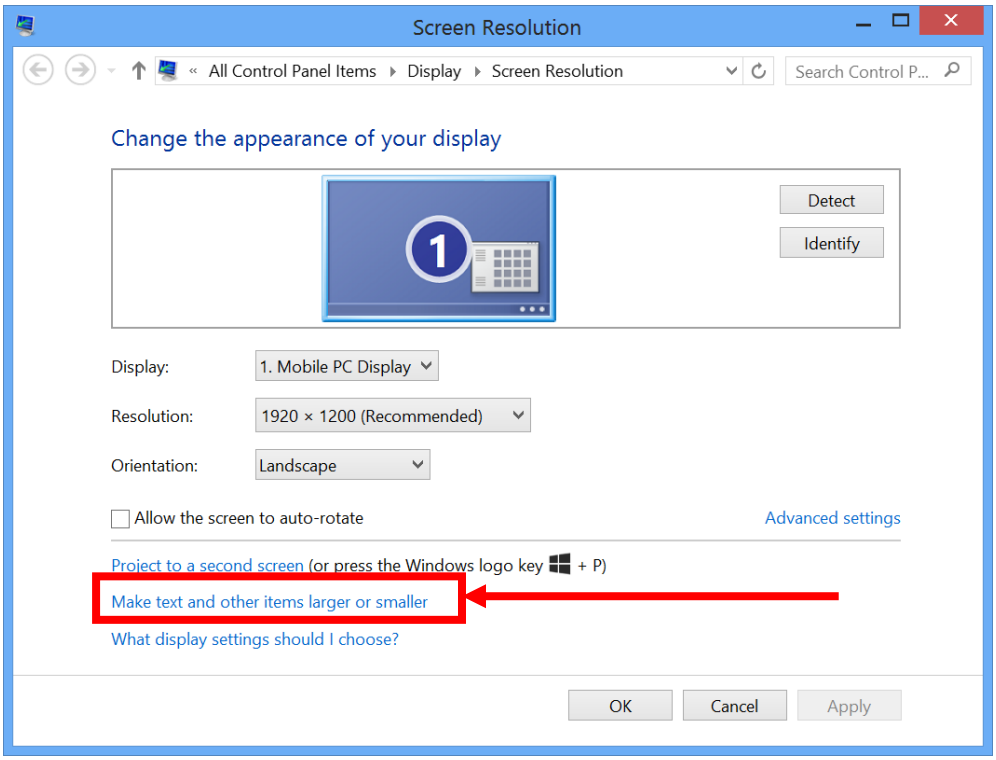
5.1.1 Changing display scaling setting (Recommended)

Perform the following to change display scaling setting:

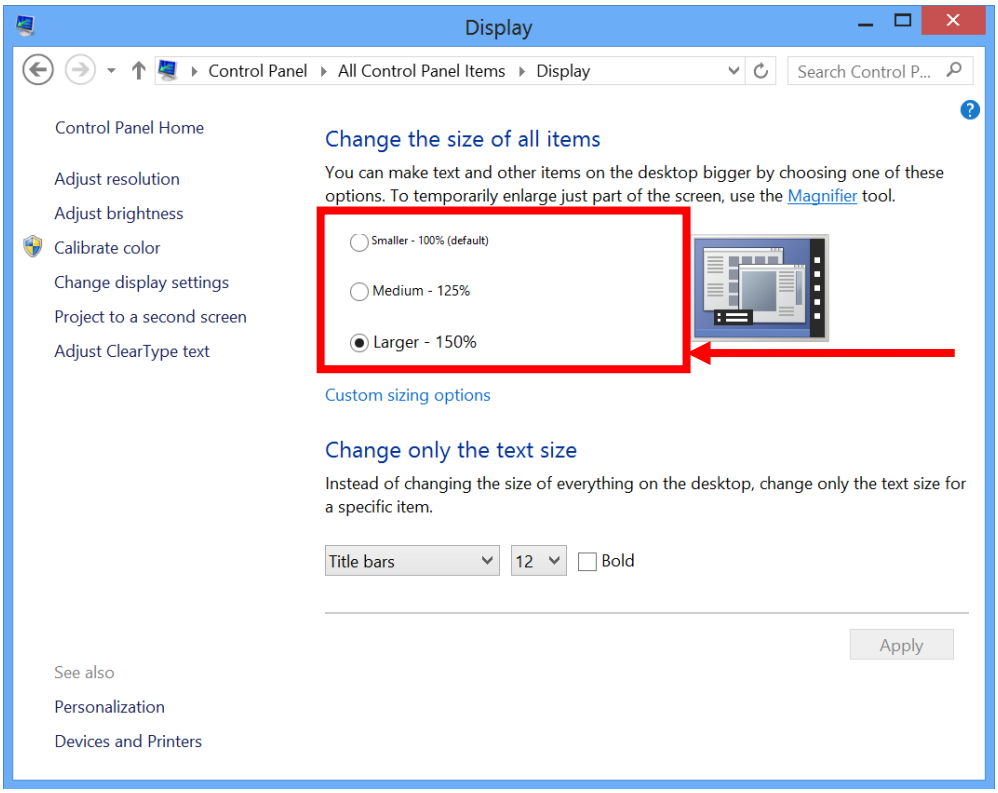
1. Tap and hold anywhere on the desktop for 3 seconds and release to bring up the context menu, and select “Screen resolution” option as shown below:



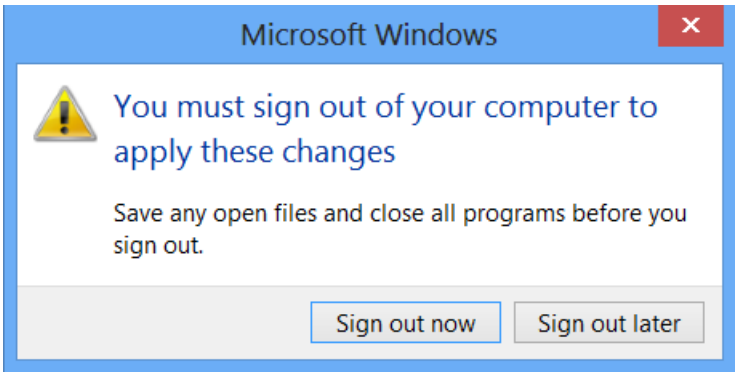
2. A “Screen Resolution” Window will show up. Select the “**Make text and other items larger or smaller**” option in the window, as shown below:



3. A "**Display**" window will show up. Under "**Change the size of all items**" section, change the scaling option to "**Larger – 150%**" or any other desired display scaling and hit "**Apply**" to save changes, as shown below:



4. A prompt may show up to ask if you want to sign out to apply the scaling change. Hit "**Sign out Now**" to apply changes, as shown below:

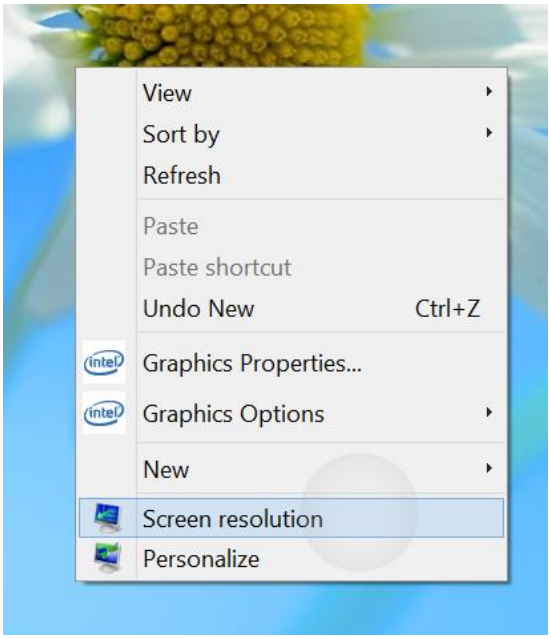


5. The user may now login again to Windows to see the changed display scaling already being applied.

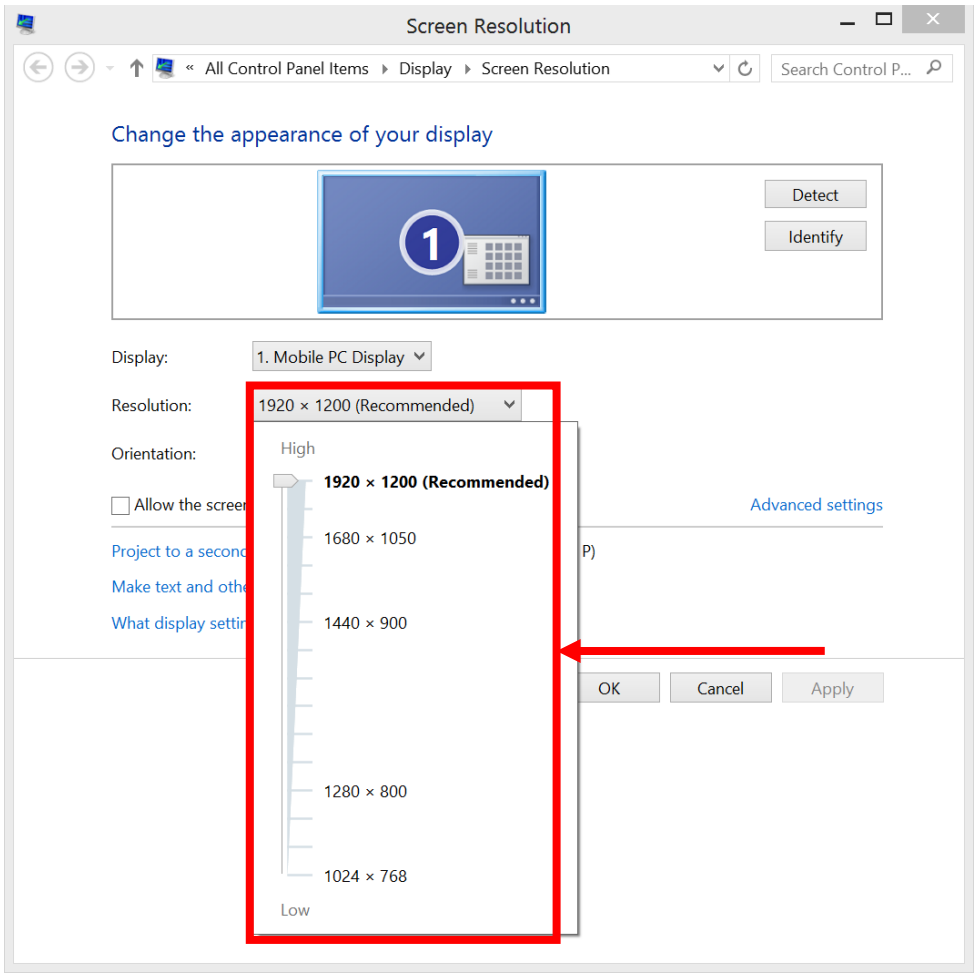
5.1.2 Changing screen resolution setting

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 "**Screen resolution**" option as shown below:



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



3. Hit “**Apply**”. A prompt “**Display Settings**” prompt will show up to ask the user if the applied resolution is usable.

4. If the new resolution is the desired display setting hit “**Keep changes**” and continue to next step. If the new resolution is not desirable, hit “**Revert**” and select a different resolution to change to, and start again from step 2.

5. The user may now use the device with the new resolution setting.

5.2 Replacing Hot Swappable Battery (For M101B)

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

Perform the following to hot swap the batteries:

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

CAUTION	**To keep battery health and prevent possible issues from battery over-discharged, please charge the tablet built-in back-up battery once for every 2 months.**

5.3 Using Recovery Wizard to Restore Computer

M101B 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 M101B 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.**

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

1. Plug-in the AC adapter to M101B tablet computer. Make sure the M101B tablet computer stays plugged in to power source during the recovery process.

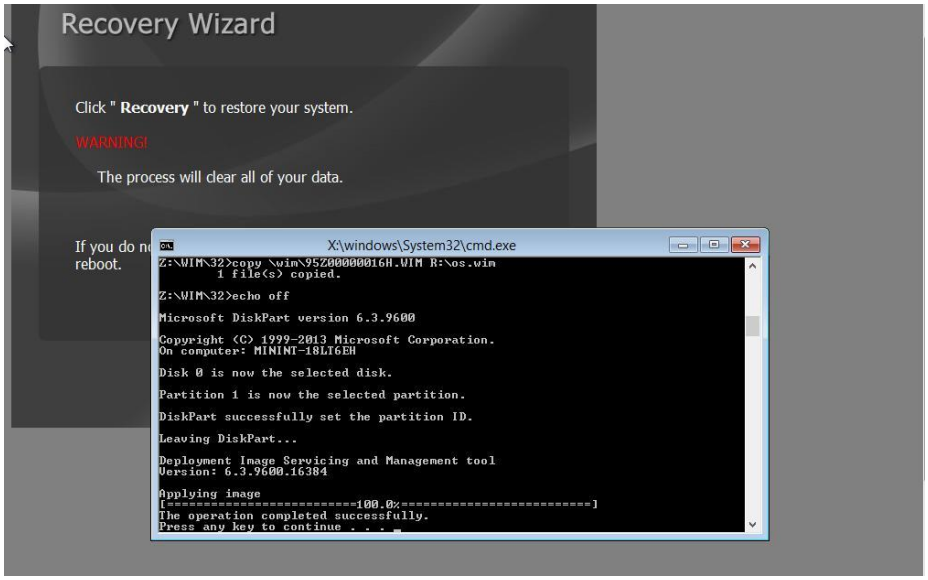
2. Power on the tablet computer, and when the boot screen shows up, press the **Fn1** button (Recovery Key) on the front bezel OR press **F6** when using an external USB keyboard to initiate the Recovery Wizard.

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.

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

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



5.4 How to change OS

M101B is shipped with pre-installed OS based on your order. You will require to follow procedures included in this OS Installation Guide if you want to install OS by yourself.

For M101B series, change the BIOS setting (UEFI/LEGACY mode) to install OS.

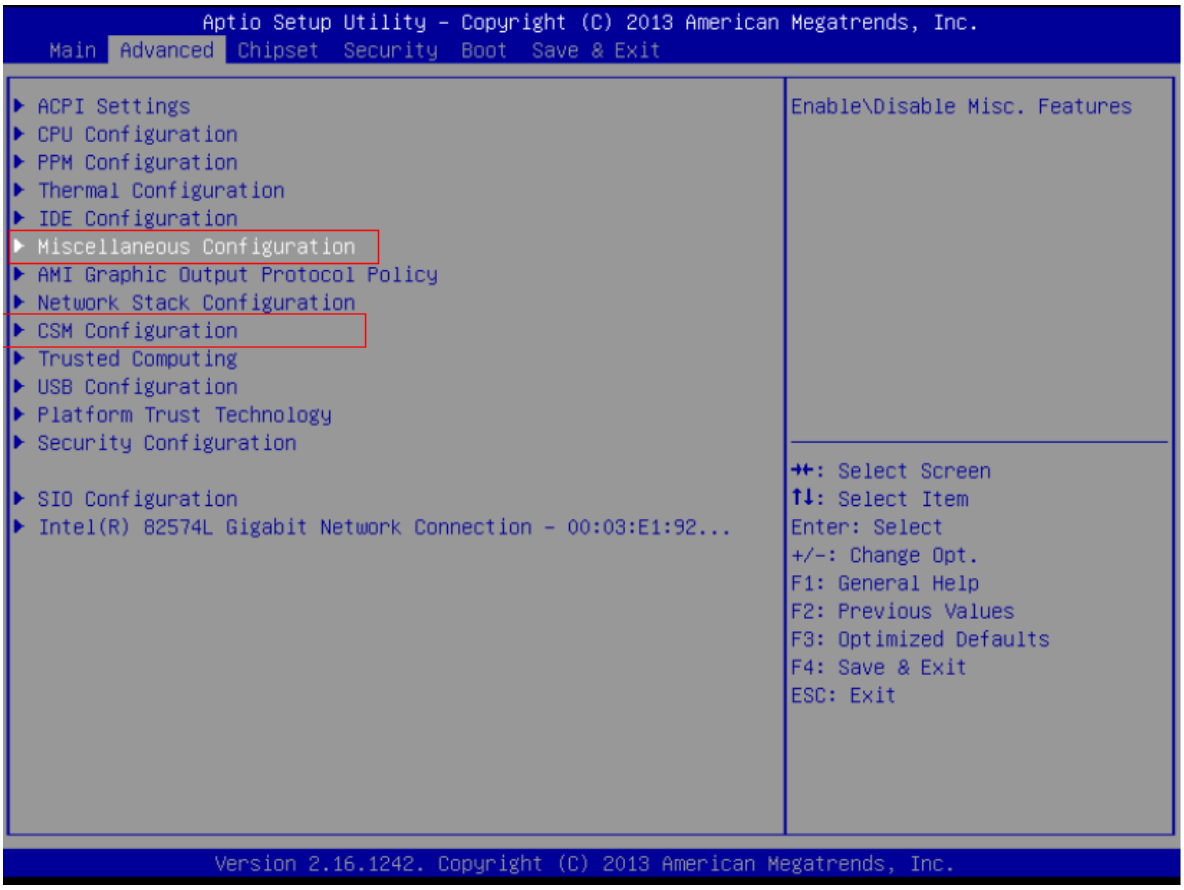
5.4.1 Changing BIOS Settings (UEFI/LEGACY mode) to Install OS

This section describes how to change UEFI/LEGACY mode in BIOS settings to install OS that is different from Winmate's shipment.

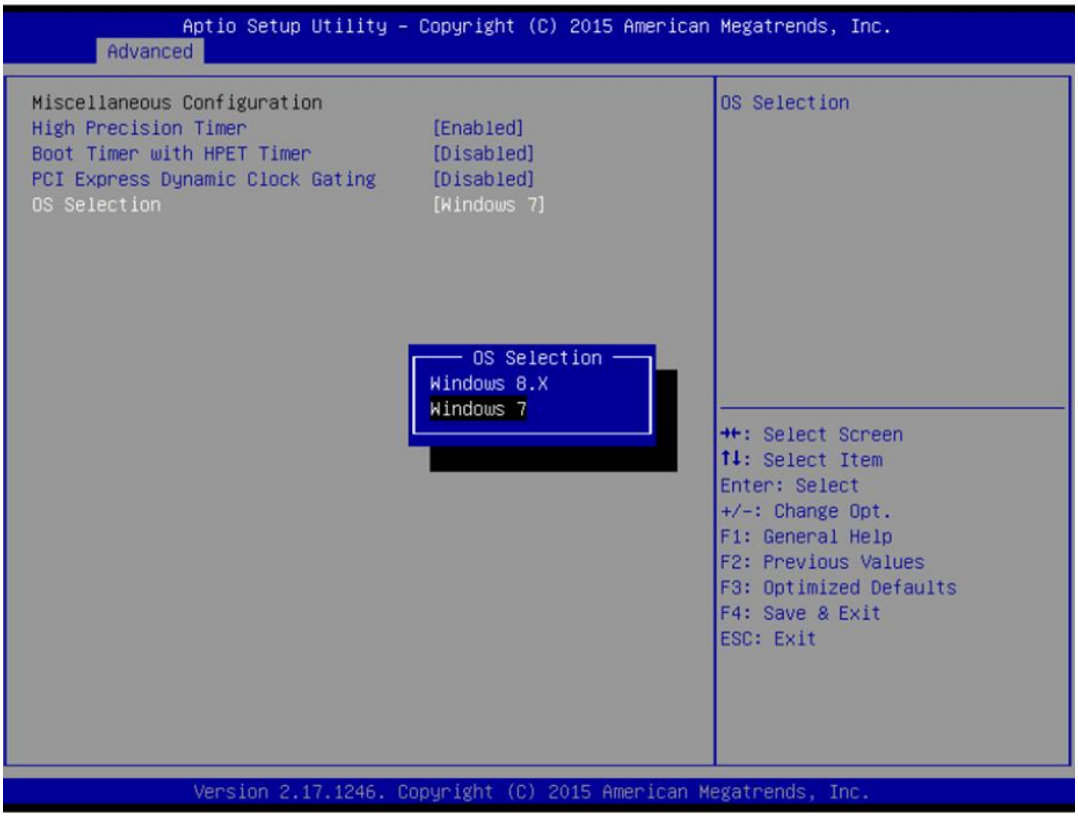
5.4.1.1 Default Windows 8.1 / 10 change to Windows 7

The instruction below describes how to change Windows 8.1 / 10 to Windows 7.

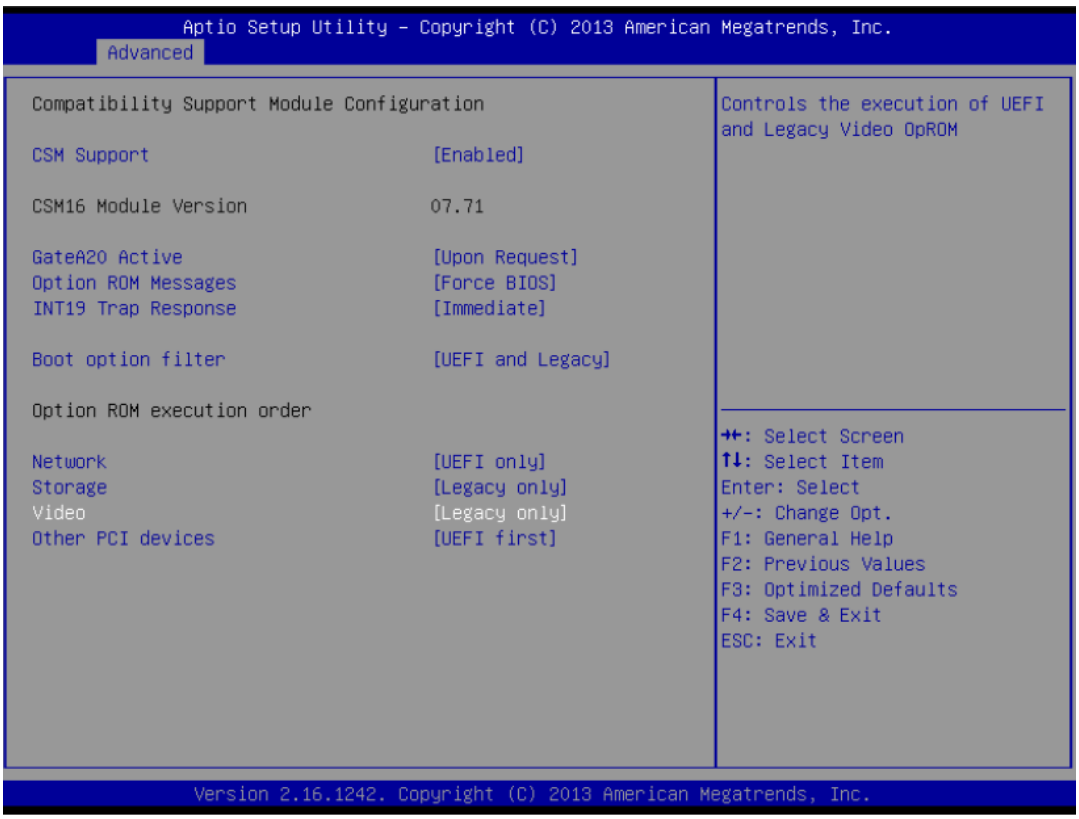
1. Enter BIOS Setup utility.
2. Go to "Miscellaneous Configuration" at BIOS setup menu.



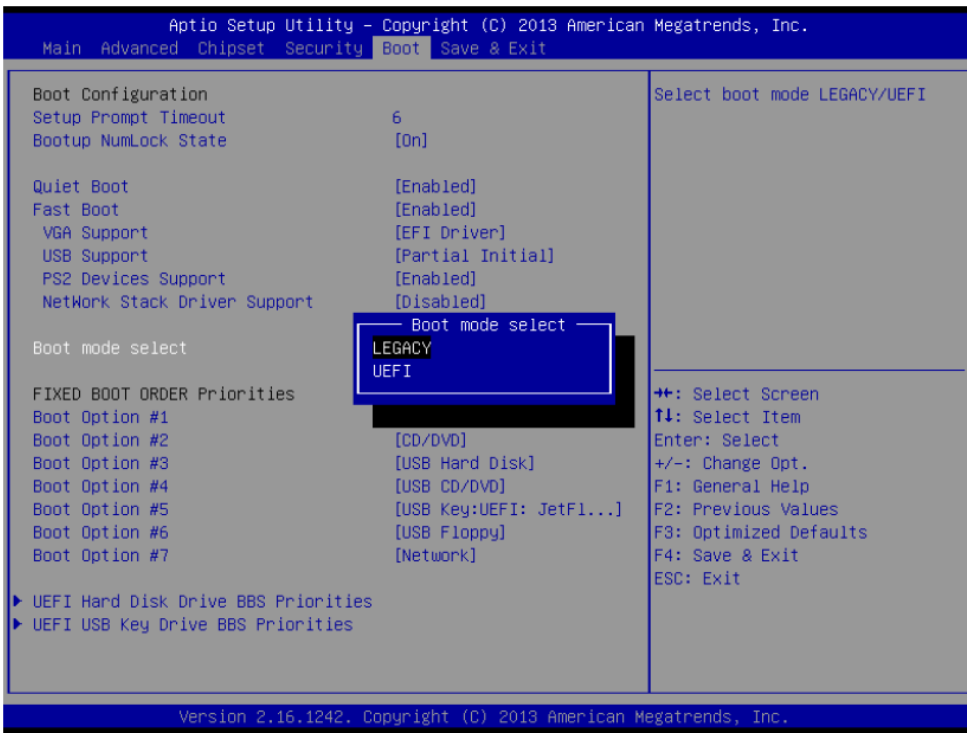
3. Change OS setting to Windows 7



4. Go to CSM Configuration, change Storage and Video to Legacy only.

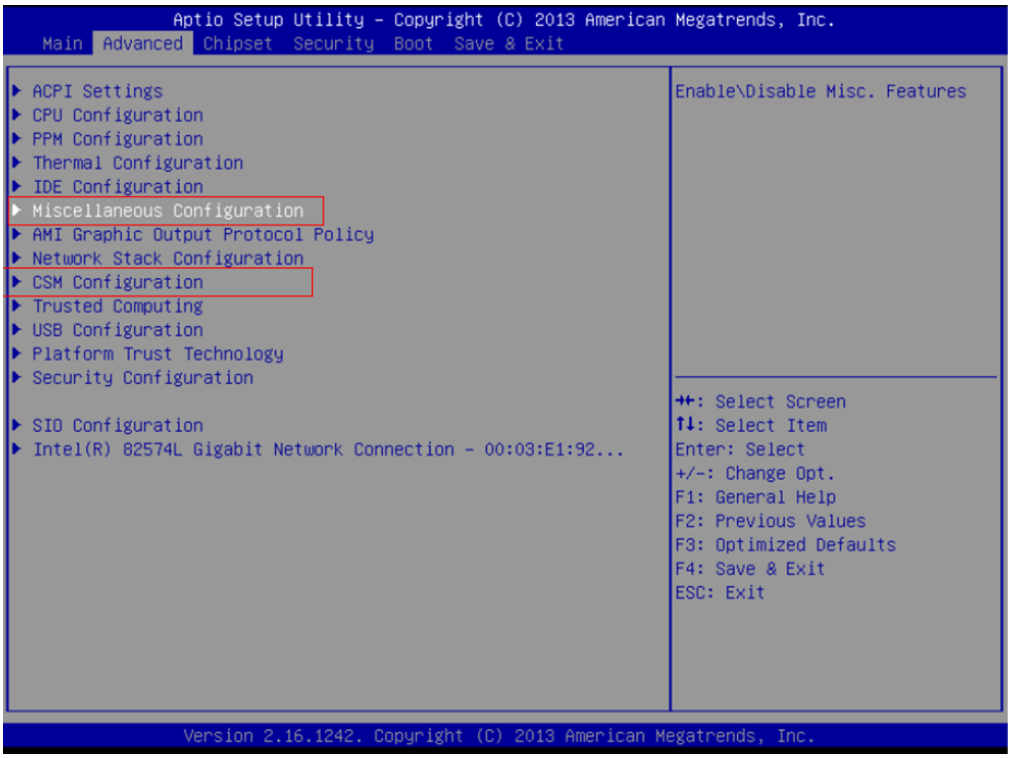


5. Go to Boot menu and change setting Boot Mode select to LEGACY.

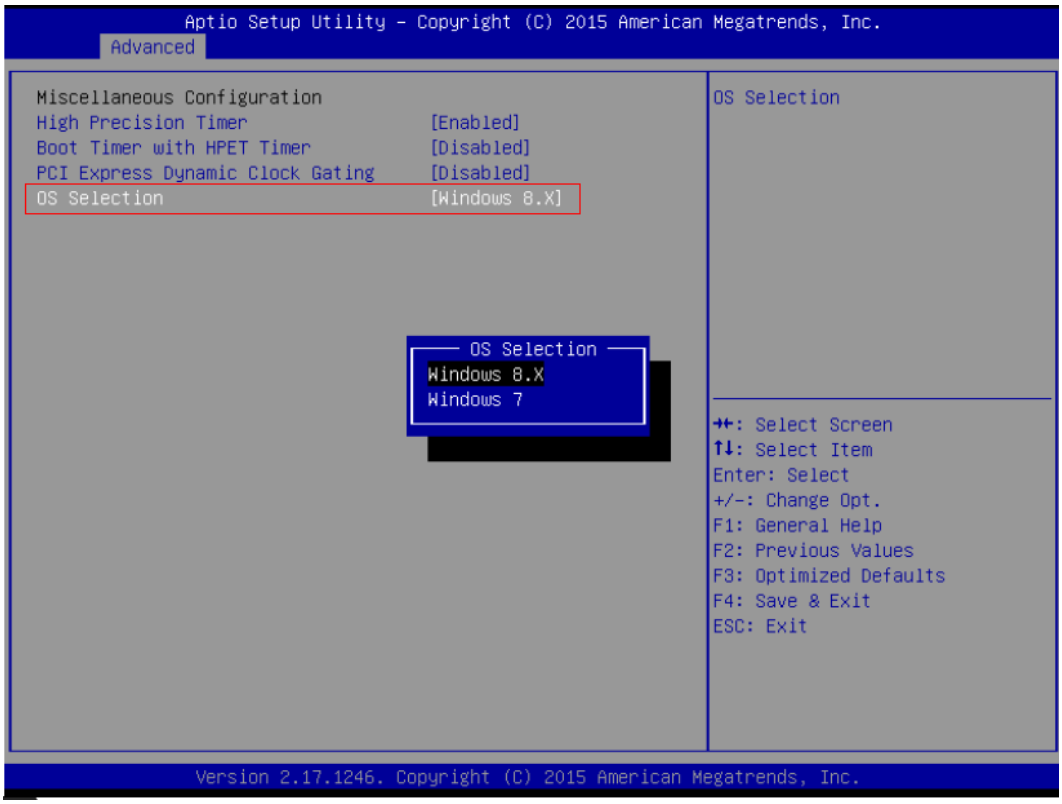


5.4.1.2 Default Windows 7 change to Windows 8.1 / 10

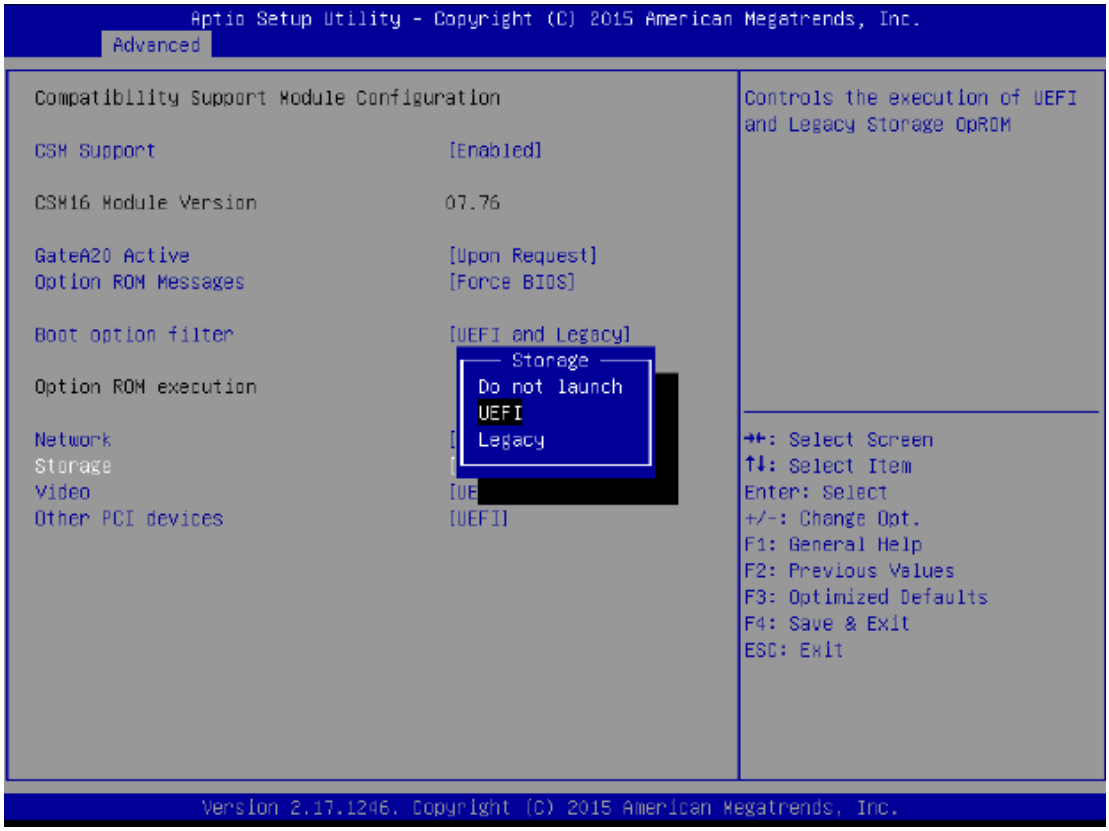
1. Enter BIOS Setup menu.
2. Go into item “Miscellaneous Configuration” at BIOS setup menu.

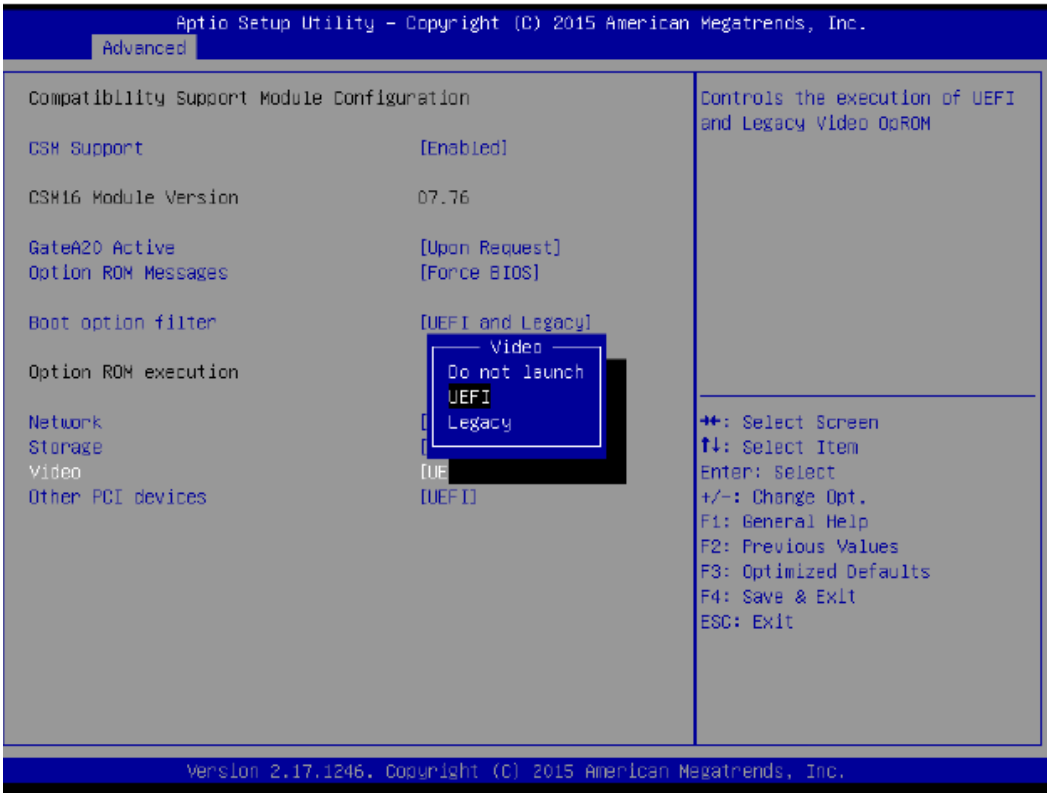


3. Change OS setting to Windows 8.X.

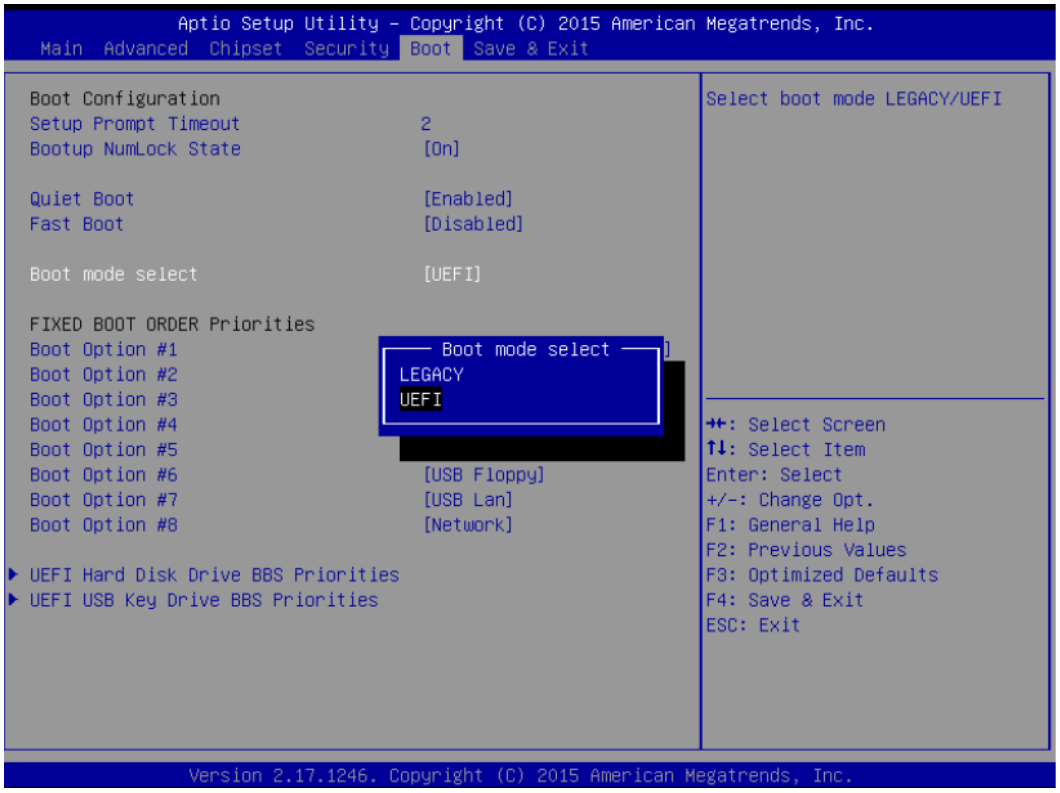


4. Go to CSM Configuration, change Storage and Video to UEFI.





5. Go to Boot Page and in the Boot Mode setting select to UEFI.

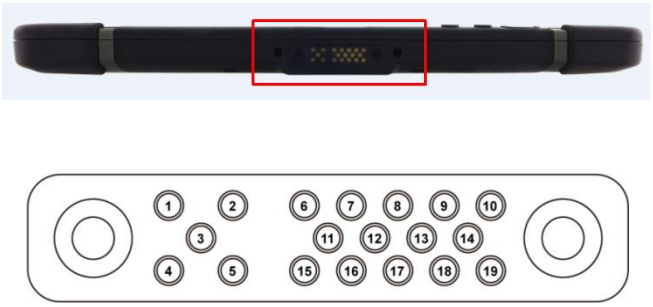


6. Now you can refer “How to change boot order.doc” put your install device to Boot Option #1 then you will start install process.

IMPORTANT:
Pay attention to the mode you created on the Recovery DVD. PE3.0 only support legacy mode for Windows 7, PE5.0 can support Win7/8/8.1 at legacy or UEFI mode. Creation and installing processes of the chosen mode must match.

5.5 Docking Connector Pin Definition

M101B 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		

5.6 Expansion Port Pin Definition

M101B tablet computer supports one optional 19-pin expansion port at the rear side. The pin definition is listed as the following table

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

CAUTION	**Do not open when the expansion port is not used.**

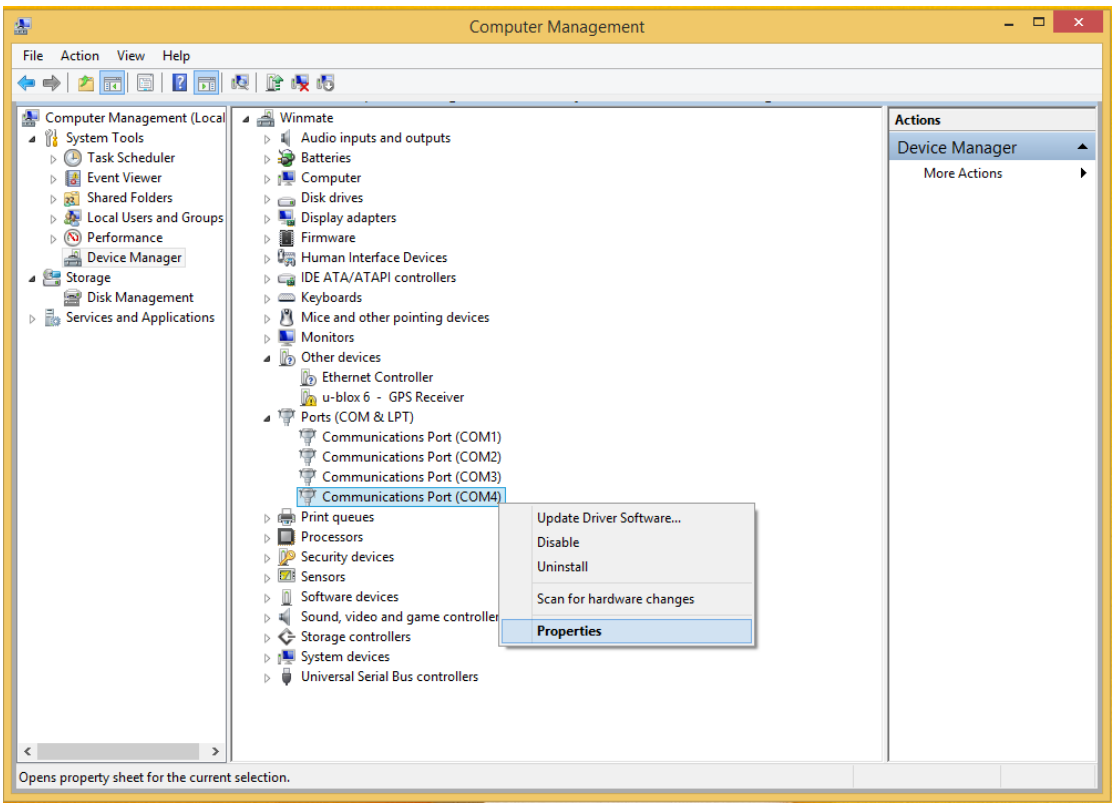
5.7 COM Port Definition

M101B 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.

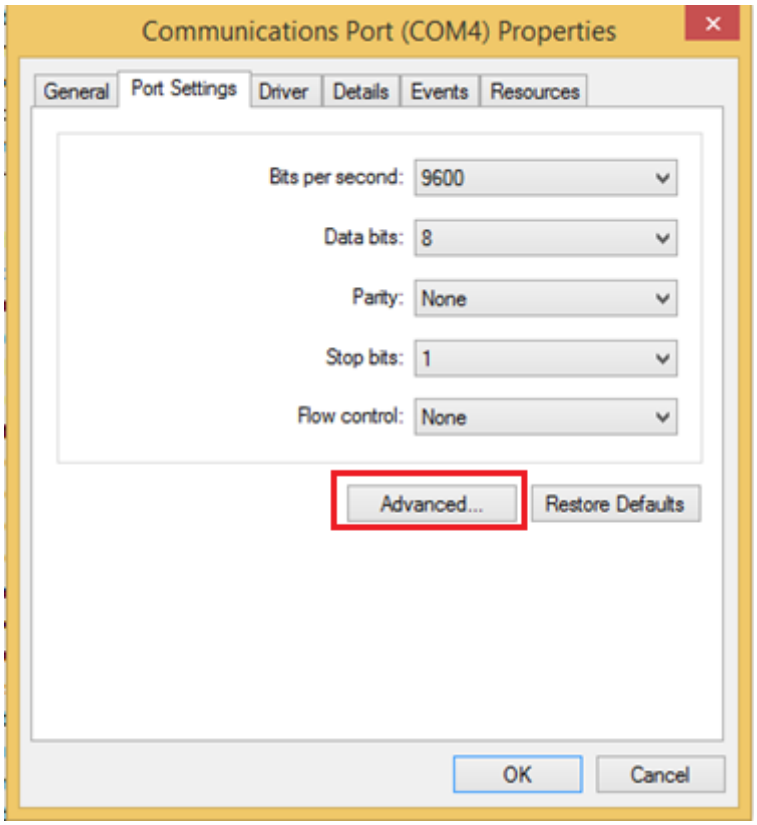
COM Port	Device
COM 1	RS232 at I/O
COM 2	RS232 of Expansion Port (optional)
COM 3	HF RFID (optional)
COM 4	Bluetooth Auto Pairing
COM 9	GPS
COM 11	RS232 at Docking (optional)
COM 15	Barcode Reader (optional)
COM 20	UHF RFID (optional)

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

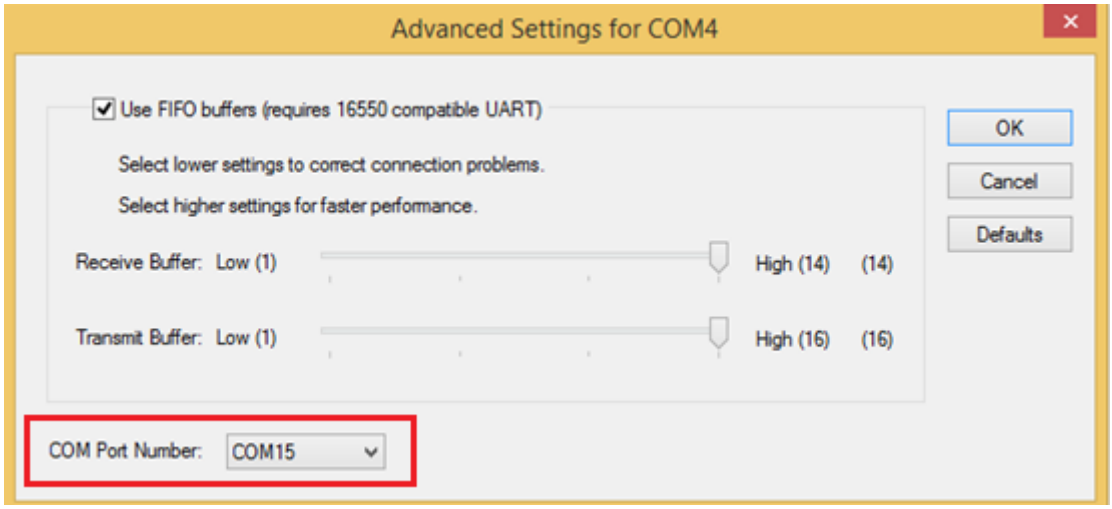
1. Go to "Device Manager", right click on the COM number need to be changed, and tap on "Properties" to open the setting page.



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.

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

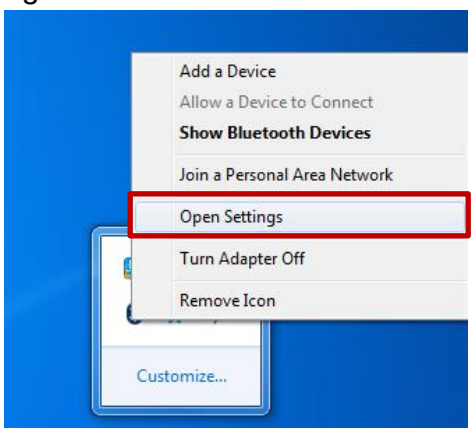
The computer is affixed with a Bluetooth MAC (Media Access Control) address barcode label that enables wireless Bluetooth Barcode Scanner to quickly establish Bluetooth connection with the computer. It is encoded with leading characters to instruct the wireless Bluetooth barcode scanner to initial Bluetooth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

5.8.1 Setup Computer for Bluetooth Pairing

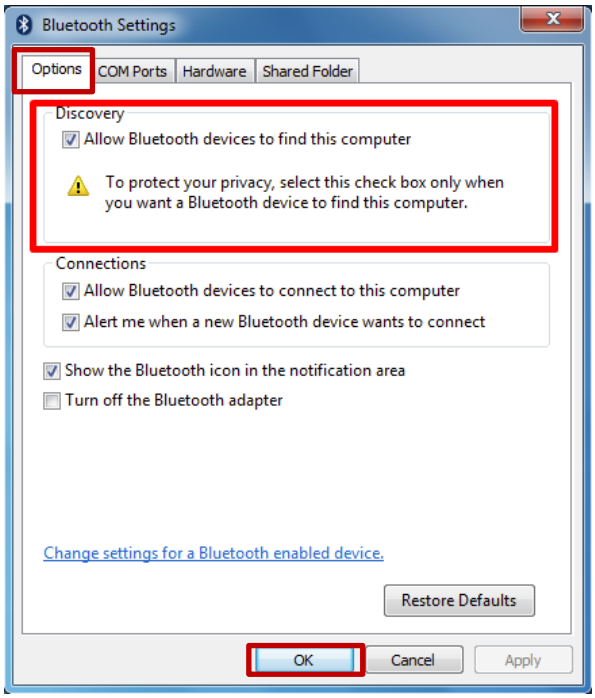
To start the pairing process, first perform the following steps to ensure the computer is properly setup for pairing:

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

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

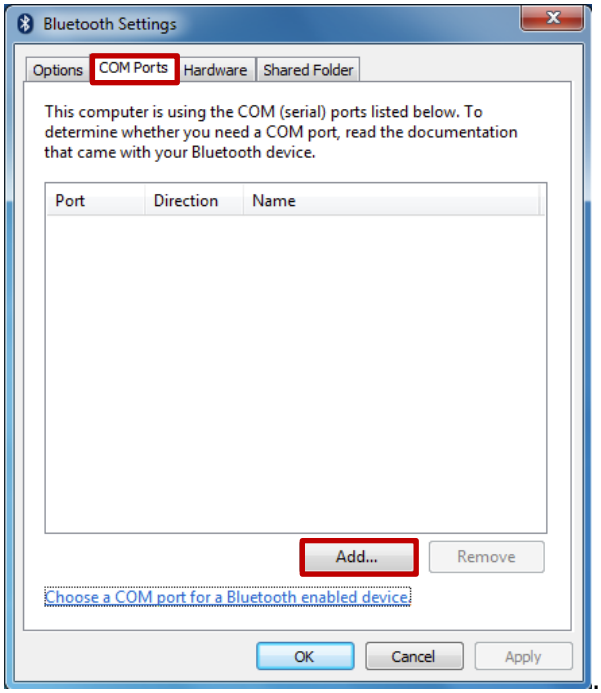


3. Once the **Bluetooth Settings** Menu appears, go to **"Options"** tab, and make sure that in the Discovery section, the computer is set to **"Allow Bluetooth devices to find this computer"**, as shown below:

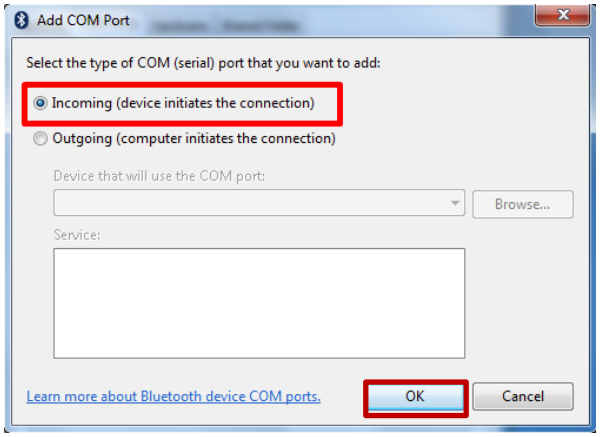


Click **OK** to continue.

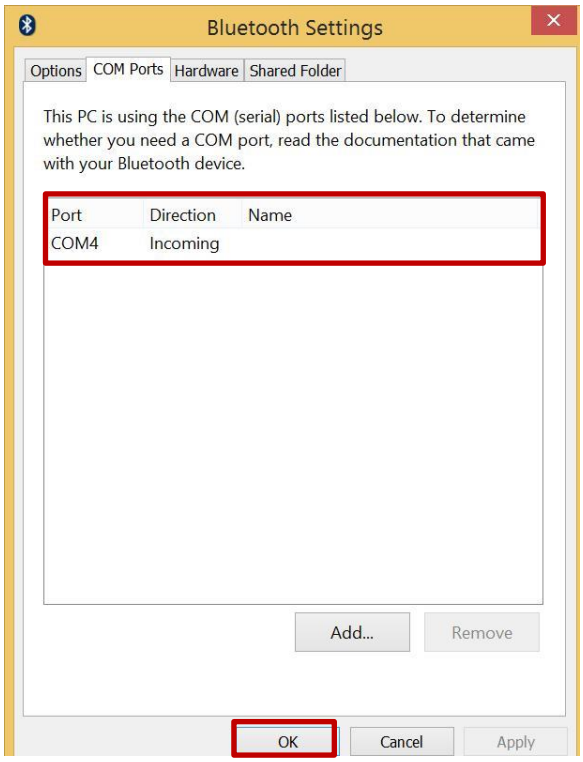
4. In the **Bluetooth Settings** menu, go to **"COM Ports"** tab. COM port has to be setup for the wireless Bluetooth Barcode Scanner to communicate via the Bluetooth Serial Port Profile. Click on the **"Add…"** button.



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



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



Click **OK** to continue.

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

IMPORTANT:
Make sure the application stays open while pairing.

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

5.8.2 Set up the Barcode Scanner for Bluetooth Pairing

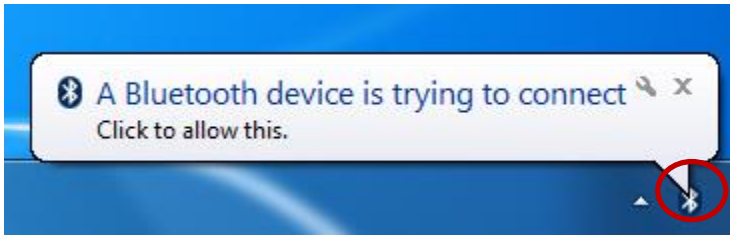
IMPORTANT:
The wireless Bluetooth Barcode Scanner has to be configured as Bluetooth Serial Port Profile Master device to establish connection via Bluetooth MAC address barcode label. For a more detailed instruction, please refer to the User Guide for the wireless Bluetooth Barcode Scanner you are using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

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

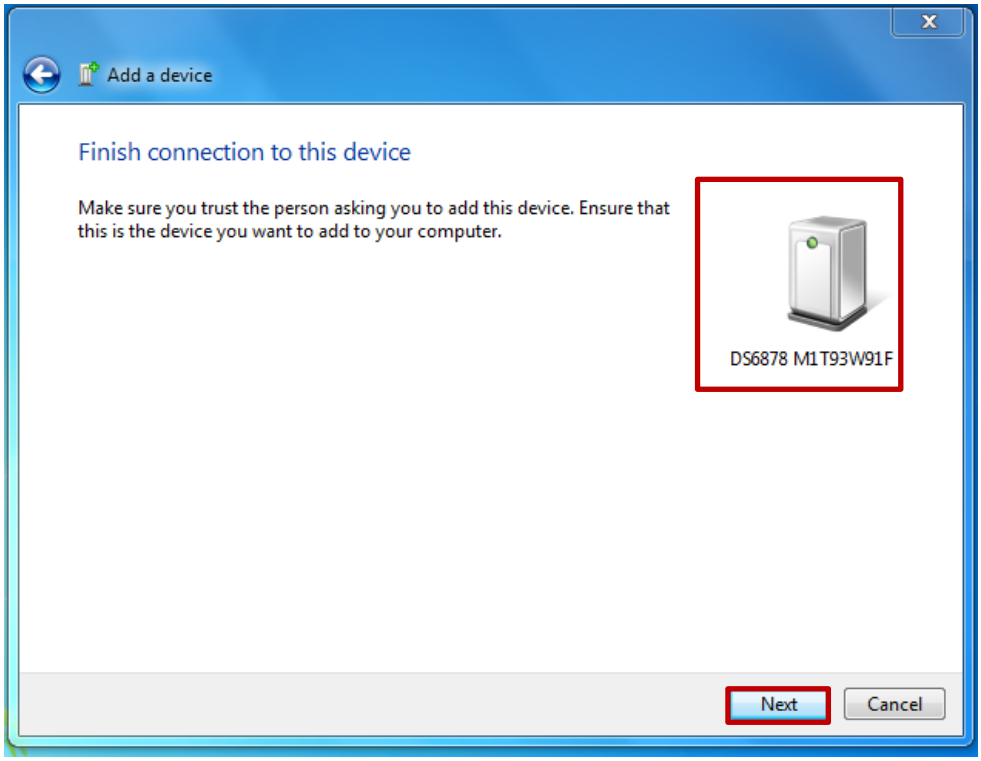
5.8.3 Perform Bluetooth Pairing

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

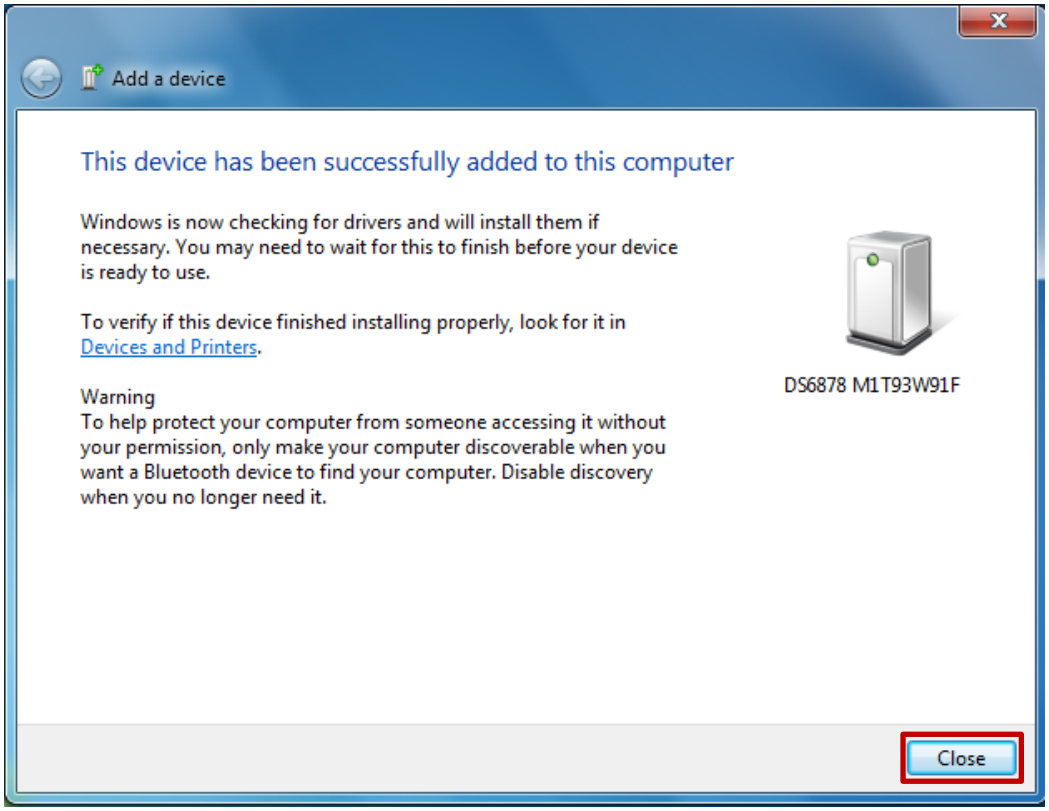
1. Open a program that is used for paring.
2. Perform scanning procedures. A Bluetooth notification window pop-up on the right hand side of the desktop. **Left click** on the mouse to enter Add a device menu.



3. In **Add a device** window, click **Next** to connect the Barcode Scanner to the Computer.

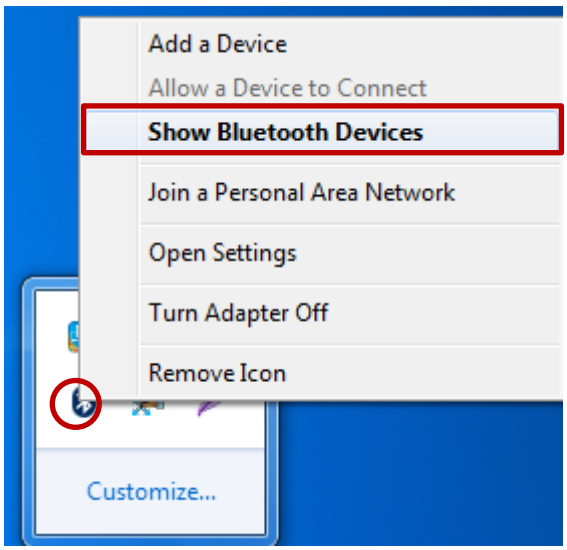


4. The Barcode Scanner has successfully been added to this computer. Click **Close** to exit "Add a device" menu.



In order to ensure that Bluetooth Device is successfully pared to the Computer, follow the steps below:

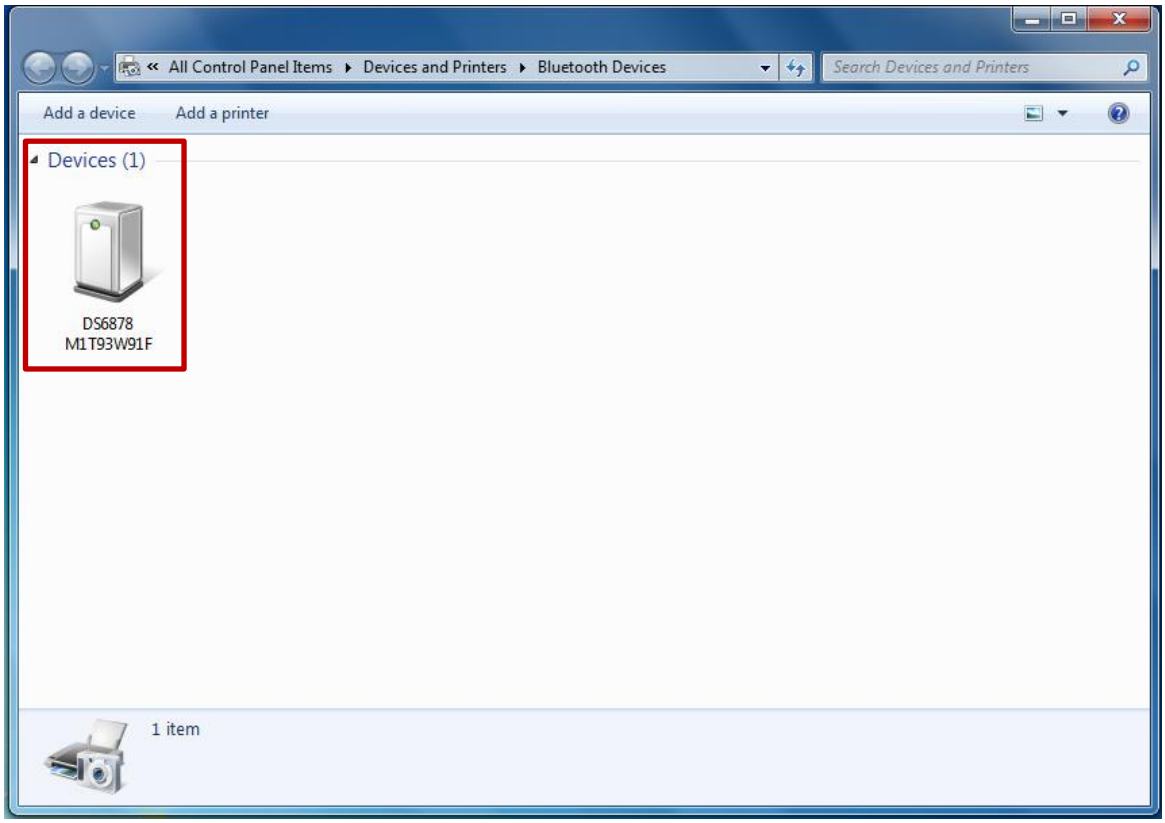
5. Locate the **Bluetooth** icon in the Notification Area. Select **Show Bluetooth Devices**.



You can access this menu in the Control Panel:

Windows ➔Control Panel ➔ Devices and Printers➔ Bluetooth Devices

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



Chapter 6: Troubleshooting

6.1 Basic Troubleshooting

Problem	Solution
The removable battery is not charging.	• Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.
Nothing appears on the screen.	• 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.	• 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.	• 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.	• Make sure that wireless LAN feature is powered on. • Make sure that the SSID setting is the same for every wireless LAN device in the network. • Restart the tablet computer • Make sure the IP address or subnet mask setting is correct.
I cannot connect to another device with Bluetooth.	• Make sure that both devices have Bluetooth powered on (For the Tablet Computer, check Hottab to see if Bluetooth is powered on). • Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between the devices. • Make sure the both devices are powered on and configured to be discoverable. • Make sure that both devices are compatible.

Problem	Solution
The GPS application cannot find my location.	• 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.
No sound is produced.	• 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.	• 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.	• 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.	• 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	• When utilizing the GPS function, we recommend disabling the Barcode Reader in Hottab to reduce interference.
RFID scanner does not seem to work.	• Make sure under Windows, the RFID hardware is set to COM 3 port.
Battery leaking or swollen	• 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 A: Order Information

M101B is available in the following configurations:

Order Information M101B						
	3G	4G	1D/2D Barcode Reader	HF RFID	UHF RFID	Smart Card Reader
M101B	Optional	Optional	N/A	N/A	N/A	N/A
M101B-3	Default	N/A	Optional	Optional	Optional	N/A
M101B-LE	N/A	4G/LTE for Europe	Optional	Optional	Optional	N/A
M101B-LA	N/A	4G/LTE for North America	Optional	Optional	Optional	N/A
M101B-BH	Optional	Optional	Default	N/A	N/A	N/A
M101BT	Optional	Optional	Optional	N/A	N/A	Default
M101B-HF	Optional	Optional	N/A	Default	N/A	N/A
M101B-UF	Optional	Optional	N/A	N/A	Default	N/A

M101BL (1280x800) is available in the following configurations:

Order Information M101BL						
	3G	4G	1D/2D Barcode Reader	HF RFID	UHF RFID	Smart Card Reader
M101BL	Optional	Optional	N/A	N/A	N/A	N/A
M101BL-3	Default	N/A	Optional	Optional	N/A	N/A
M101BL-LE	N/A	4G/LTE for Europe	Optional	Optional	N/A	N/A
M101BL-LA	N/A	4G/LTE for North America	Optional	Optional	N/A	N/A

**Barcode and HF/ UHF RFID are mutually exclusive.*

*** HF RFID and UHF RFID are mutually exclusive.*

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