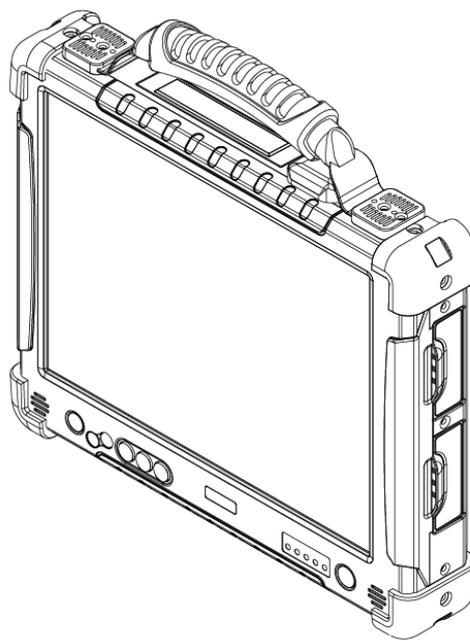


# Ultra-Rugged Tablet Computer

Intel® Core i5-5200U Broadwell 2.2 GHz, up to  
2.7 GHz



R10IH8M-RTT2GP, 10.4" Ultra Rugged Tablet PC

## User Guide

Version 1.0

# **Preface**

## **Copyright Notice**

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

## **Trademark Acknowledgement**

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

## **Disclaimer**

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

## **Warranty**

Our warranty guarantees that each of its products will be free from material and workmanship defects for a period of one year from the invoice date. If the customer discovers a defect, we will, at his/her option, repair or replace the defective product at no charge to the customer, provide it is returned during the warranty period of one year, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service. If the serial number and the product shipping data differ by over 30 days, the in-warranty service will be made according to the shipping date. In the serial numbers the third and fourth two digits give the year of manufacture, and the fifth digit means the month (e. g., with A for October, B for November and C for December).

For example, the serial number 1W16Axxxxxxx means October of year 2016.

## **Customer Service**

We provide a service guide for any problem by the following steps: First, visit the website of our distributor to find the update information about the product. Second, contact with your distributor, sales representative, or our customer service center for technical support if you need additional assistance.

You may need the following information ready before you call:

- Product serial number
- Software (OS, version, application software, etc.)
- Description of complete problem
- The exact wording of any error messages

In addition, free technical support is available from our engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products.

## 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.



A note is used to emphasize helpful information.

**NOTE**

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

**IMPORTANT**

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

**CAUTION**

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

**WARNING!**

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## Important Information

Countries/ Area	Symbol	This equipment complies with essential requirements of:
European Union 		Electromagnetic Compatibility Directive(2014/30/EU) Low Voltage Directive (2014/35/EU) Restrictions of the use of certain hazardous substances (RoHS) Directive (2011/65/EU)
USA 		FCC Part 15 Subpart B Regulations Class B

## Federal Communications Commission Radio Frequency Interface 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.

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## **About This User Guide**

This User Guide provides information about using the Winmate® R10IH8M-RTT2GP and accessories.

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Some pictures in this guide are samples and can differ from actual product.

### **NOTE**

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## **Documentation Set**

The documentation set for the R10IH8M-RTT2GP series provides information for specific user needs, and includes:

- **Ultra Rugged Tablet PC Series Quick Start Guide** - describes how to get the R10IH8M-RTT2GP up and running.
- **Ultra Rugged Tablet PC Series User Guide** – contains detailed description on how to R10IH8M-RTT2GP, its components and features.

## **Chapter Descriptions**

[Chapter 1, Read Me First](#) provides important safety information for you to know prior using R10IH8M-RTT2GP

[Chapter 2, Getting Started](#) provides basic instructions on how to use R10IH8M-RTT2GP, including main SIM card, SD card and battery installation, powering on and resetting R10IH8M-RTT2GP

[Chapter 3, First Time Operation](#) provides instructions on how to set up Windows OS for the first time.

[Chapter 4, Quick Access by HotTab](#) provides basic instructions on using the R10IH8M-RTT2GP

[Chapter 5, Frequently Used Settings](#) explains how to change R10IH8M-RTT2GP display resolution, replace hot-swap battery and restore the computer.

[Chapter 6, Troubleshooting](#) provides basic troubleshooting information on R10IH8M-RTT2GP

## **Chapter 1: Read Me First**

### **Safety Information**

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



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

Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example). Generation of heat, ignition or rupture may result

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

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

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

Do Not Short the Positive (+) and Negative (-) Terminals of the Battery. Generation of heat, ignition or rupture may result. When carrying or storing the device, do not place the battery pack together with articles that may contact electricity.

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

Do Not Apply Shocks to the Battery by Dropping It or Applying Strong Pressure to It. Electrolyte leakage, generation of heat, ignition or rupture of battery may occur.

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

Do Not Charge the Battery Other Than Methods Those Specified In This Manual. If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.

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

When the Battery Pack Has Deteriorated, Replace It with a New Battery. Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

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

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

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

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

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



## **General Product Safety** **Sécurité générale des produits**

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

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

Do not block any ventilation openings. Do not place the product against a wall or in an enclosed space as doing so might impede the flow of cooling air.

*Ne pas bloquer les ouvertures de ventilation. Ne pas placer le produit contre un mur ou dans un espace clos de façon à entraver la circulation de l'air de refroidissement.*

Do not place the product near any heat sources such as radiators, warm air intakes, stoves or other heat-generating devices (including amplifiers or other heat producing equipment).

*Ne pas placer le produit près d'une source de chaleur comme des radiateurs, les arrivées d'air chaud, poêles ou autres produits générant de la chaleur (y compris les amplificateurs ou autre équipement produisant de la chaleur.)*

Do not disregard the safety that a polarized or grounded connection can provide. A polarized connection consists of two plugs, one of which is larger than the other. A grounded connection has two blades and a third one that is grounded. If the main plug provided cannot be inserted into your outlet, consult an electrician to replace your obsolete outlet.

*Ne pas ignorer la sécurité qu'une prise polarisée ou une prise de terre peut prévoir. Une prise polarisée se compose de deux fiches, dont l'une est plus large que l'autre. Une prise de terre possède deux lames et une troisième qui est la terre. Si la fiche principale fournie ne peut être insérée dans votre prise, consultez un électricien pour remplacer votre prise obsolète.*

Protect the power cord from being crushed or pinched, particularly in the area of the plugs, any receptacles used, and the point of exit from the apparatus. Do not break off the ground pin of the power cord.

*Empêcher le cordon d'alimentation d'être écrasé ou pincé, en particulier dans les zones de prises, des containers utilisés, et du point de sortie de l'appareil. Ne pas casser la broche de terre du cordon d'alimentation.*

Use only accessories specified by the manufacturer.

*Utiliser uniquement les accessoires spécifiés par le fabricant.*

Use only with its transport carriage, stand, tripod, console or table specified by the manufacturer or sold with the product. When using a carriage, move the carriage assembly with the product carefully to avoid damage from falling over.

*Utiliser uniquement avec son chariot de transport, support, trépied, console ou table spécifiés par le fabricant ou vendu avec le produit. Lors de l'utilisation d'un charriot, déplacez l'ensemble chariot avec le produit avec soin pour éviter tout dommage de chute.*

Unplug this apparatus during lightning storms or when it is not being used for long periods.

*Débrancher cet appareil durant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes.*

Refer all servicing to qualified service personnel. A technical intervention is required when the apparatus has been damaged in any way, for example if the power cord or plug is damaged, liquid has been spilled or objects have fallen inside the unit, if the product has been exposed to rain or moisture, if it does not operate normally or if it has been dropped.

*Confier toute réparation à du personnel qualifié. Une intervention technique est nécessaire lorsque l'appareil a été endommagé de quelque façon, par exemple si le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés à l'intérieur de l'unité, si le produit a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il a été jeté.*

## **Handling and Maintenance**

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



### **General Guideline Guide Général**

Keep the product at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as TV, refrigerator, motor, or a large audio speaker.

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

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

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

The screen surface can be easily scratched. Use with care. Do not use paper towels to clean the display but use the included cleaning cloth. Avoid touching it with a pen or pencil.

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

To maximize the life of the backlight in the display, allow backlight to automatically turn off as a result of power management. Avoid using a screen saver or other software that prevents the power management from working.

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



### **Cleaning Guideline Guide de nettoyage**

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

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

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

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



## **Touchscreen Guideline *Guide de l'écran tactile***

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

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

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

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

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

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

When there is a noticeable discrepancy in the operation of the touchscreen function (your touch does not correlate to the proper location on the screen), recalibrate the touchscreen display.

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

## **Chapter 2: Getting Started**

This chapter tells you information about Winmate® R10IH8M-RTT2GP Series Rugged Tablet Computer, its highlighted features, and provides basic instructions for using the R10IH8M-RTT2GP, including powering on and resetting the R10IH8M-RTT2GP.

- Introduction
- Product Features
- Unpacking
- Accessories
- Description of Parts
- Hot Key for Specific Functions
- First Time Operations
- Powering On and Off

### **Introduction**

Thank you for purchasing Winmate® R10IH8M-RTT2GP Rugged Tablet Computer. Winmate® R10IH8M-RTT2GP Rugged Tablet PC is powered by a Haswell 1.6 GHz Intel Core i5-5200U processor that was designed for high performance computing and uses the Intel HD 4400 Graphics chipset. The R10IH8M-RTT2GP comes with a 10.4” high-quality XGA (1024 x 768) screen, this 4-wire resistive touch screen may be operated with ease by either a plastic stylus or fingertip

The R10IH8M-RTT2GP packs WLAN, Bluetooth, GPS, and WWAN function—all into a single device. Besides Winmate® R10IH8M-RTT2GP offers the highly reliable mobility and embedded hardware for data collection. Broad range of configuration options- Barcode Reader, makes R10IH8M-RTT2GP highly customizable and most versatile mobile solution for mission-critical mobile professionals.

### **Product Features**

Wimate® R10IH8M-RTT2GP Rugged Tablet PC features:

- Intel Core i5-5200U Haswell 1.6 GHz (turbo max 2.6 GHz)
- Intel HD Graphics 4400
- 2 x SODIMM, Max 16GB DDR3L-1600 (default 4GB)
- Visible light transfection touch enhanced visibility
- Optional front (2MP) and rear (5MP) camera
- Alu-Mg alloy housing for MIL-810G, vibration, salt fog test
- Built in wireless/Bluetooth/GPS
- Support 3G Module (optional)

## **Unpacking**

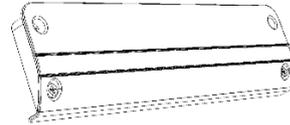
If any of the following items are missing or damaged, contact us.

Standard packing list includes:

- Tablet Computer



- Standard Battery



- Power Adapter



- Power Cord and Plugs



- Driver CD



- User Manual

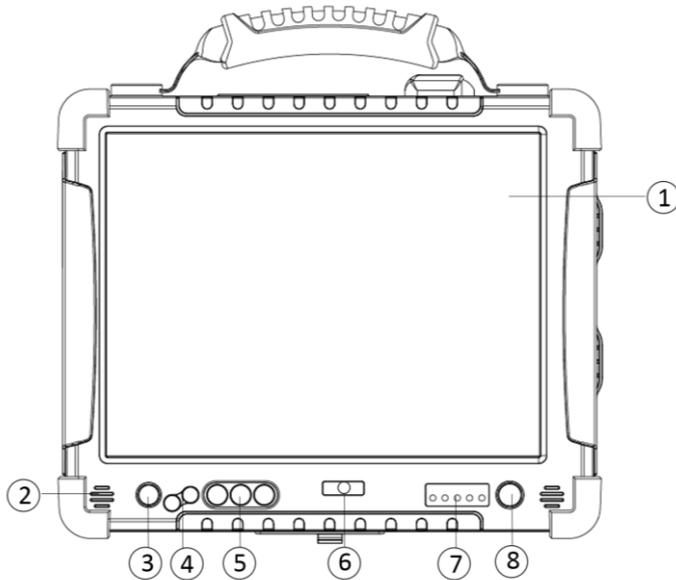


- Stylus Pen (located on the rear side)

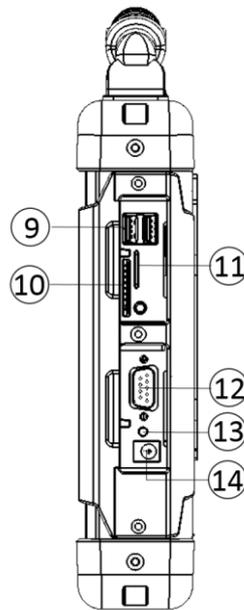


## Description of Parts

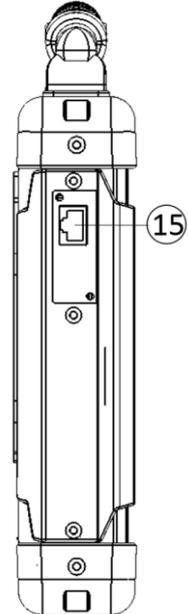
Front:



Right:



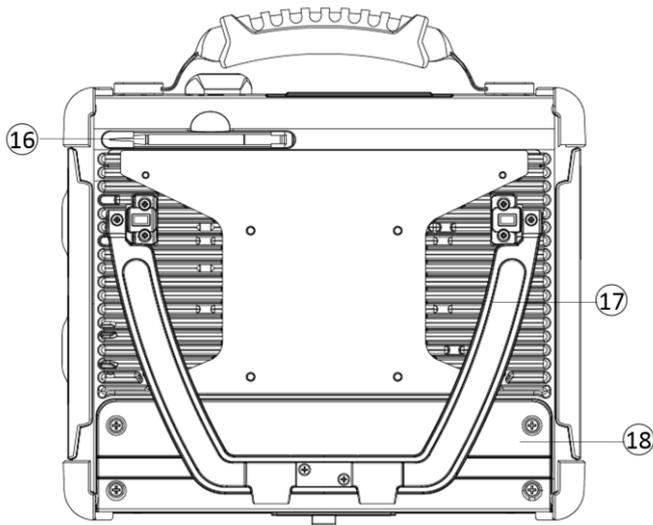
Left:



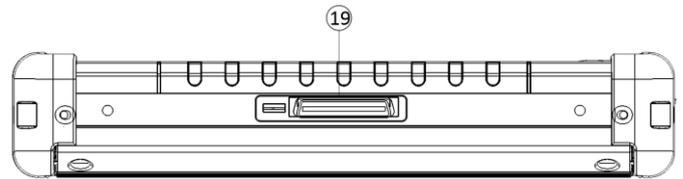
No	Item	Description
1	Resistive Touch Screen	Display acts as one of the inputs for the Tablet Computer
2	Speaker	2 x 1 Watt Speaker
3	Menu	Menu function to show brightness, volume, battery status and WiFi / Bluetooth on/off
4	Up	Push up key to increase brightness or volume under Menu Function
	Down	Push down key to decrease brightness or volume under Menu Function
5	Hot Key	6 programmable hot-key (short and long press) for user to define by application. Default (F1 short press) will turn on HotTab AP utility
6	Optional Front Camera	5MP Autofocus Camera. Captures photos and videos.
7	LED indicator	Show the current status of the Tablet Computer

No	Item	Description
		Power Mode
		Battery Status
		Storage Status
		WiFi Status
		Light Sensor
8	Power	Power On/Off the unit
9	2 x USB 3.0	High speed USB port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc
10	SD Card slot	Slot to insert SD Card
11	SIM Card slot	Slot to insert SIM Card
12	RS232/422/485	RS232 COM Port interface for serial communication
13	Reset button	Hardware reset Button
14	Power Jack	DC-in power input jack
15	LAN port	Gigabit Ethernet RJ45 Connector for LAN connection

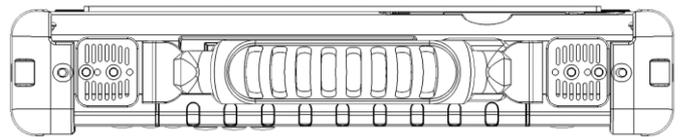
**Rear:**



**Bottom:**



**Top:**



No	Item	Description
16	Stylus	Stylus pen to optimize the touch performance
17	Adjustable Kickstand	This adjustable kickstand allows user to adjust their viewing angle.
18	Battery	11.1V, 5200 mAh Lithium-Ion Battery (6cells)

No	Item	Description
19	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna Also the hot swappable battery

## HotKey for Specific Functions

For the physical buttons on the R10IH8M-RTT2GP Tablet Computer, in addition to their dedicated functions detailed in the previous section, they 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 boot up):

Buttons	Keystroke
F1	Recovery Menu

### Under Windows:

Buttons	Keystroke
Menu	Menu function to show brightness, volume, battery status and WiFi / Bluetooth on/off
F1	Open the HotTab

### LED Indicators:

Item		Description
Power Indicator		<b>Green</b> – Tablet is ON <b>No light</b> – Tablet is OFF
Battery Status		<b>Orange</b> – AC adapter is plugged in and charging <b>Blinking Red</b> – Battery is Low and need to be charge
Disk Activity Indicator		<b>Green</b> - Disk Activity <b>No light</b> - Disk Idling
RF Communication		<b>Green</b> – Wi-Fi/BT/WWAN/GPS ON <b>No light</b> – Wi-Fi/BT/WWAN/GPS are all OFF
Light Sensor		Auto adjust screen backlight

## **First-time Operation**

To start using the R10IH8M-RTT2GP for the first time:

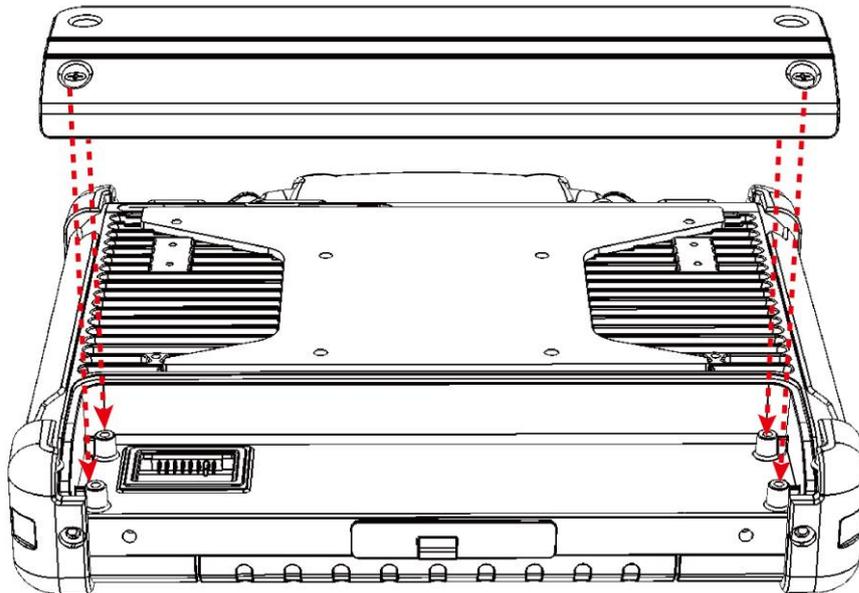
- Install the Battery Pack
- Installing Hot-swappable Battery
- Charge the R10IH8M-RTT2GP
- Power on the R10IH8M-RTT2GP
- Configure the R10IH8M-RTT2GP

### **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. Insert the battery on the connector-pins side first, and then lower the battery into the battery compartment. Screw tightly on the battery to make it fully inserted.
4. Make sure the battery is completely inserted, battery will be flat against the housing once fully inserted.

**Place the tablet (back facing up) and insert the Battery into the battery slot.**



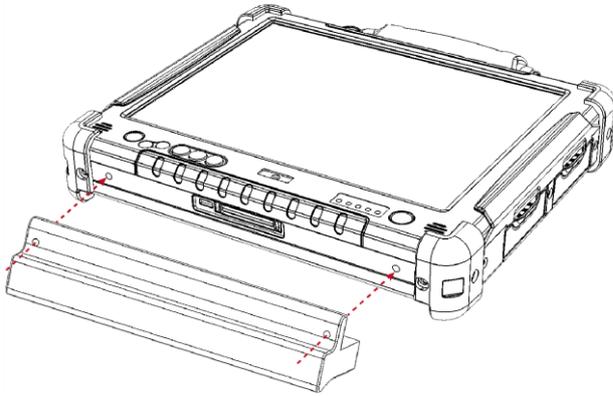
### **Removing the Battery Pack**

1. Power off the Tablet Computer (or turn on sleep mode). Disconnect any cords connected to the computer.
2. Turn the Tablet Computer over, back facing up.
3. Locate the Battery and unscrew it to the "Unlocked" position.
4. Lift the battery out.

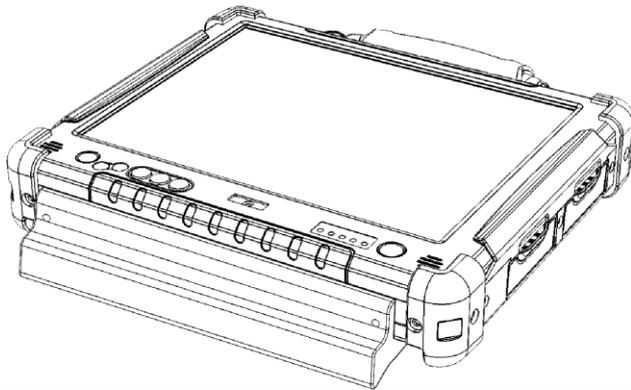
## Installing Hot-swappable Battery

This Hot-swappable battery carries 2600mAh back-up battery that can support half of the main battery operating hours. To installed the hot-swappable battery perform this following steps:

1. Plug the hot-swappable battery while the main battery in low power mode
2. Align the docking connector of the tablet with the battery



3. Use the thumb-screws to secure the hot-swappable battery and the tablet



4. Push Menu button to show the main and external or Back Up battery status to make sure that the hot-swappable battery already installed properly



## 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.



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

### CAUTION

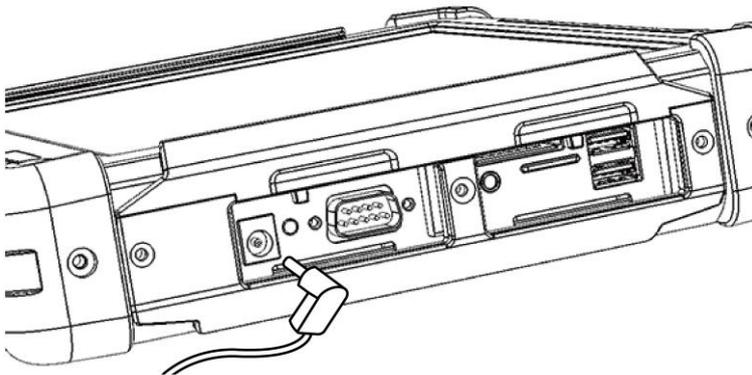


For users starting up the Tablet Computer for the first time with internal battery power, please make sure the battery is full charged before using.

### IMPORTANT

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
<b>Battery Life</b>	
Standard Battery	8 Hours

Item	Hours
<b>Battery Charging hours</b>	
Standard Battery	2.5 Hours

## Powering On and Off

## Powering On

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



### NOTE

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

## Powering Off

Perform the following procedure to power off the Tablet Computer:

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



### NOTE

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

---

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## Chapter 3: First Time Operation



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

### IMPORTANT

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



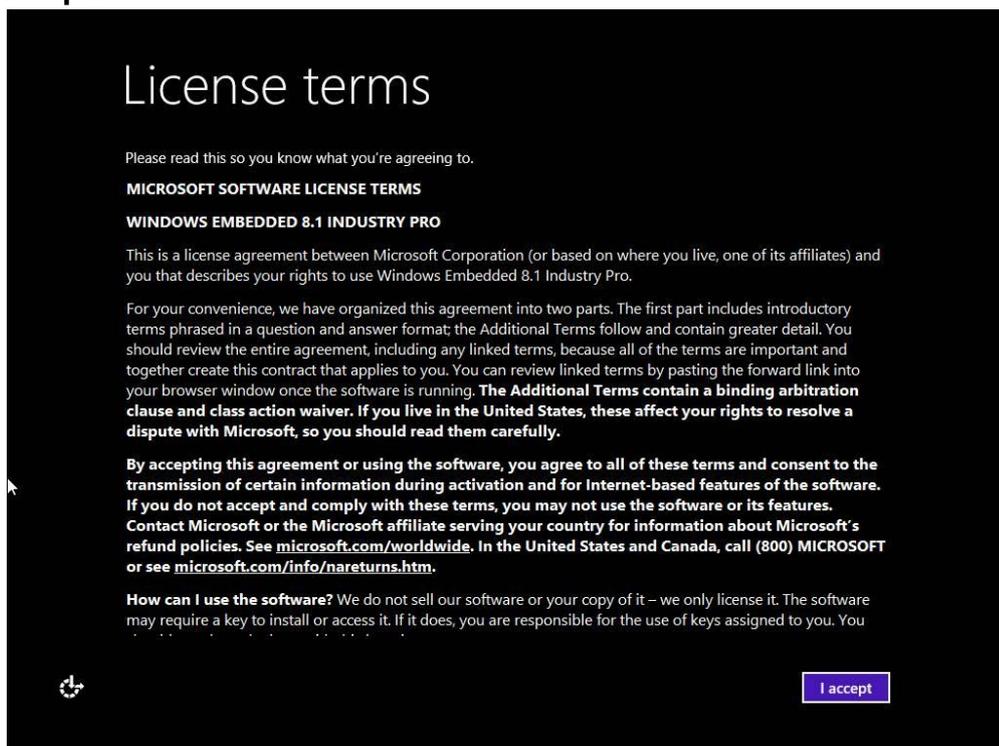
Please notice that BIOS varies by different Windows OS; for users going to change OS, please contact our sales contact window for details.

### NOTE

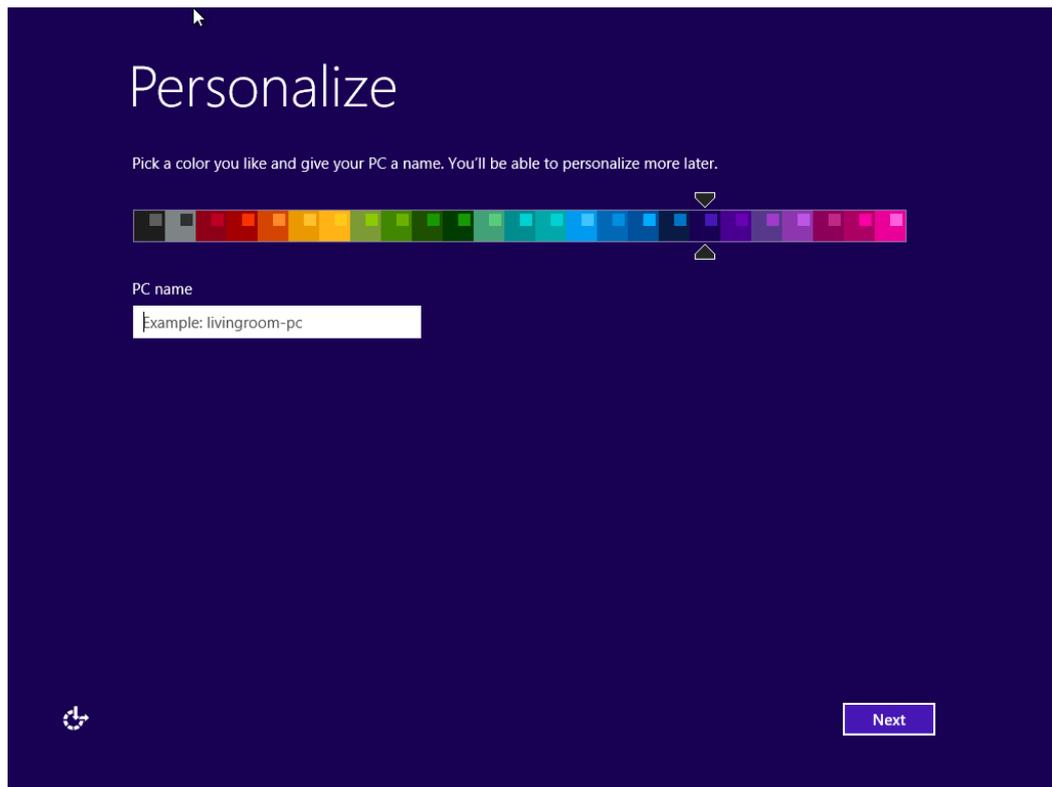
## Setting up Windows Embedded 8.1 Industry Pro

Follow the steps below to complete the setup process.

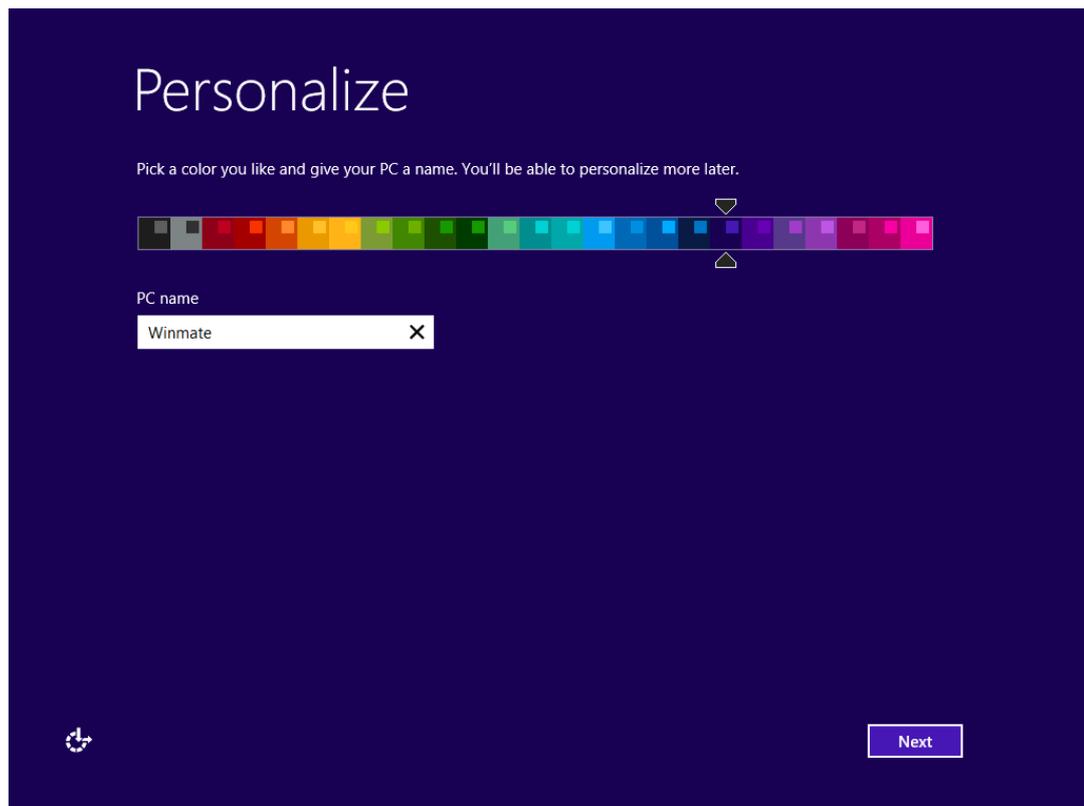
1. Press the power button to power on the computer.
2. Check **I accept the license terms for using Windows** to accept the terms, and then click or tap "**I Accept.**"



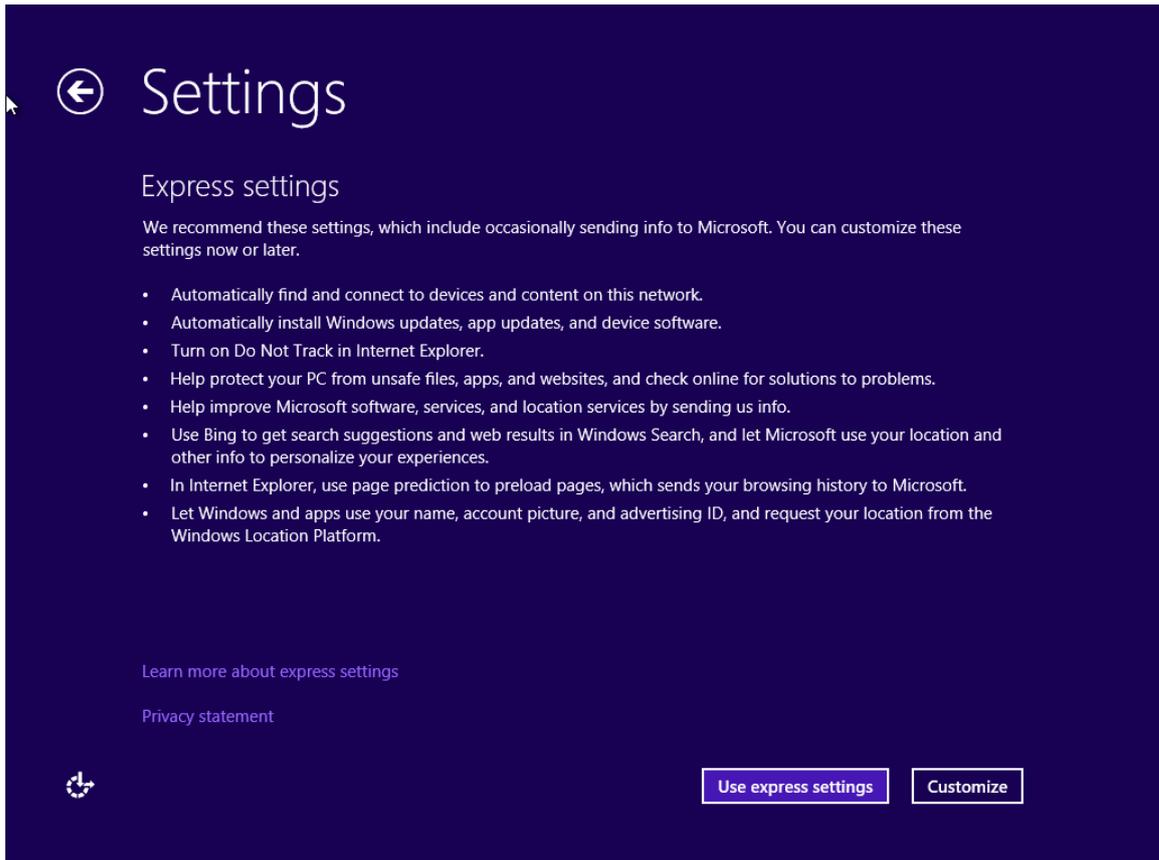
3. On the **Personalize** screen, choose a color you like – you can always change this later from the Start screen.



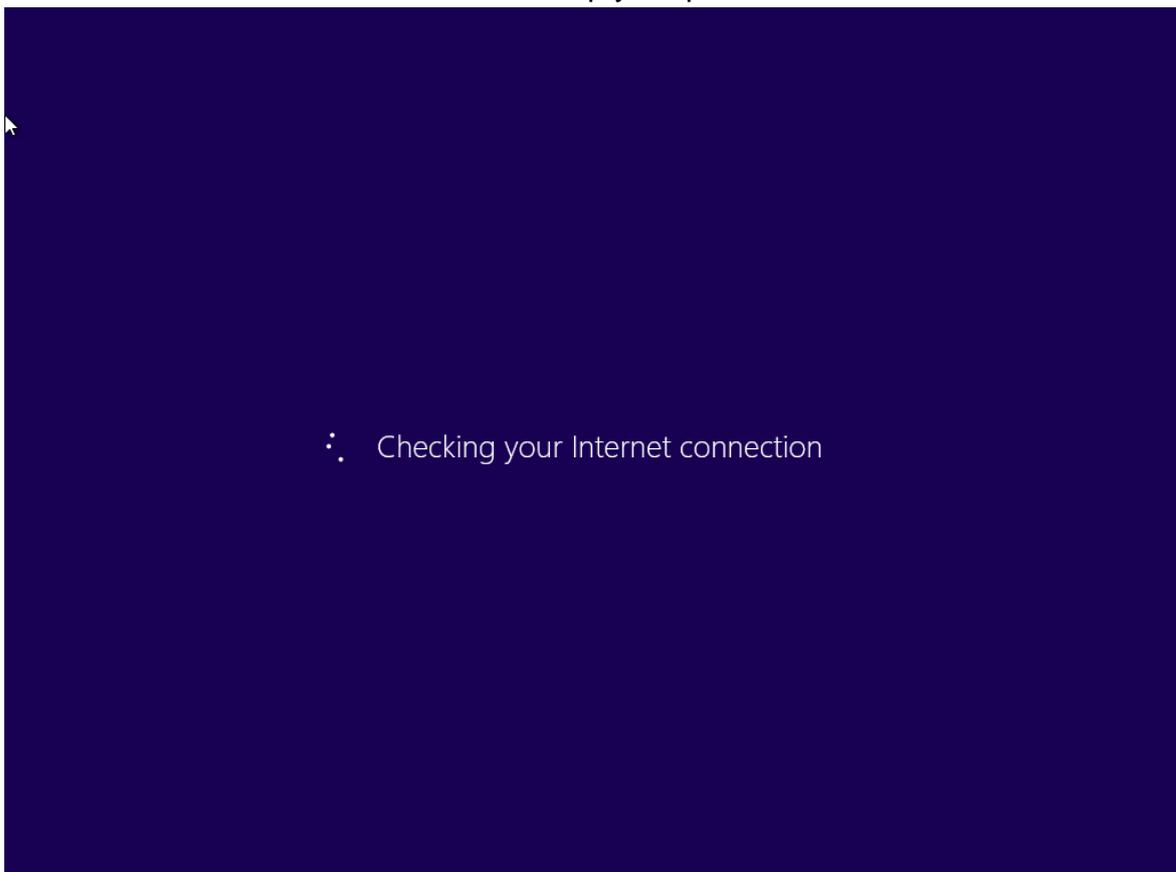
4. In the **PC name** field, type a name for your computer, and then click or tap **Next**.



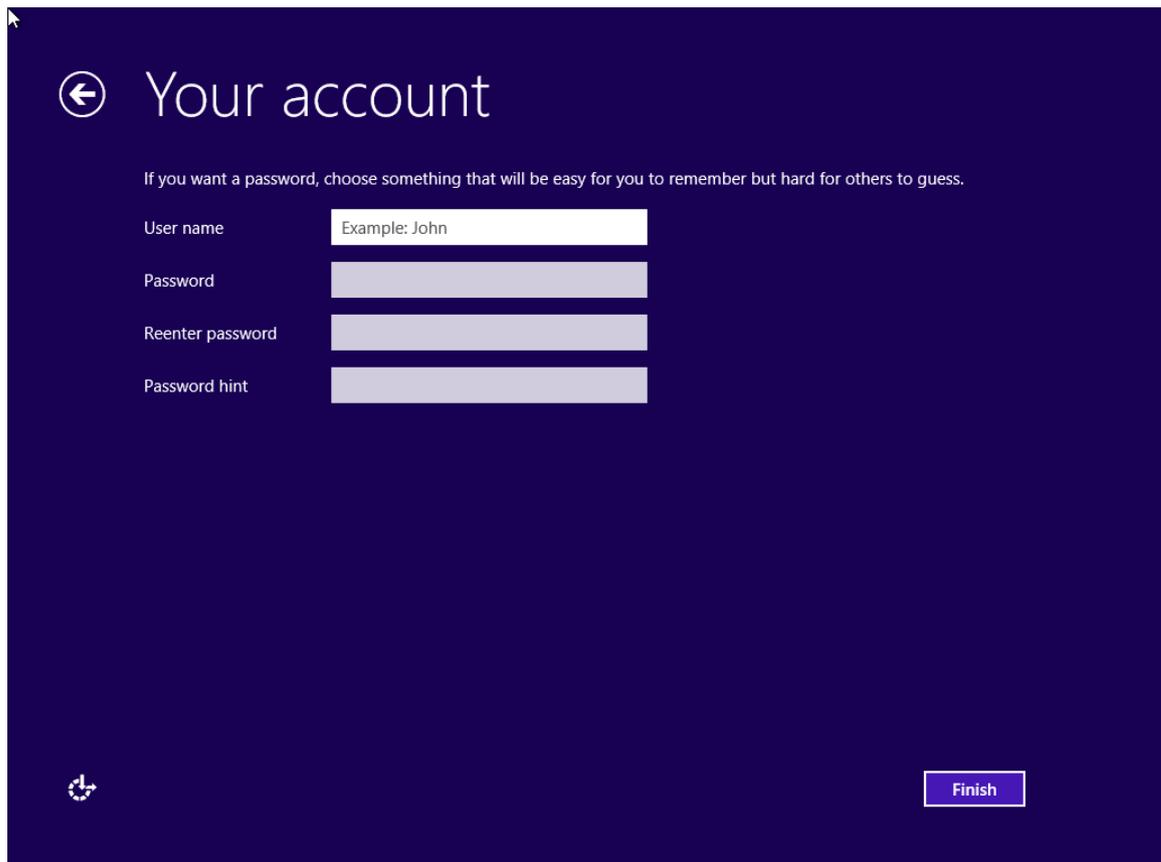
5. On the **Settings page** screen, choose **Use express settings** for the fastest setup.



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**.



← Your account

If you want a password, choose something that will be easy for you to remember but hard for others to guess.

User name

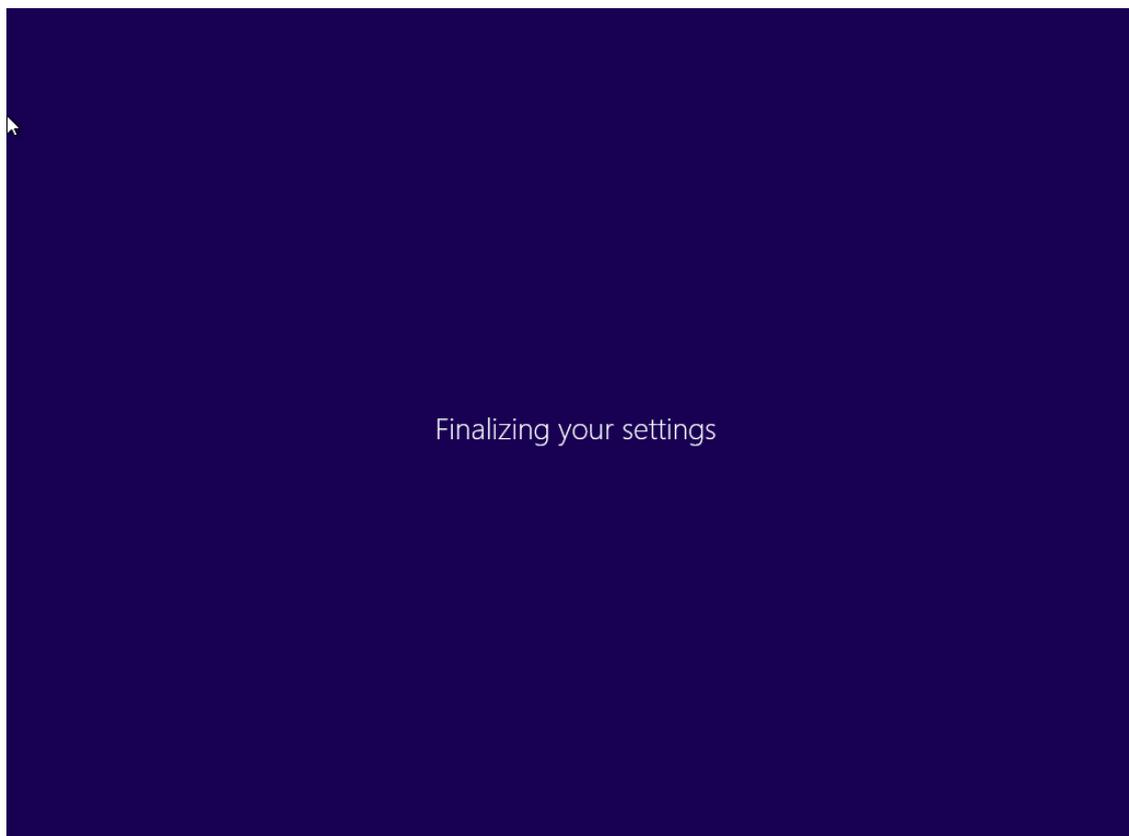
Password

Reenter password

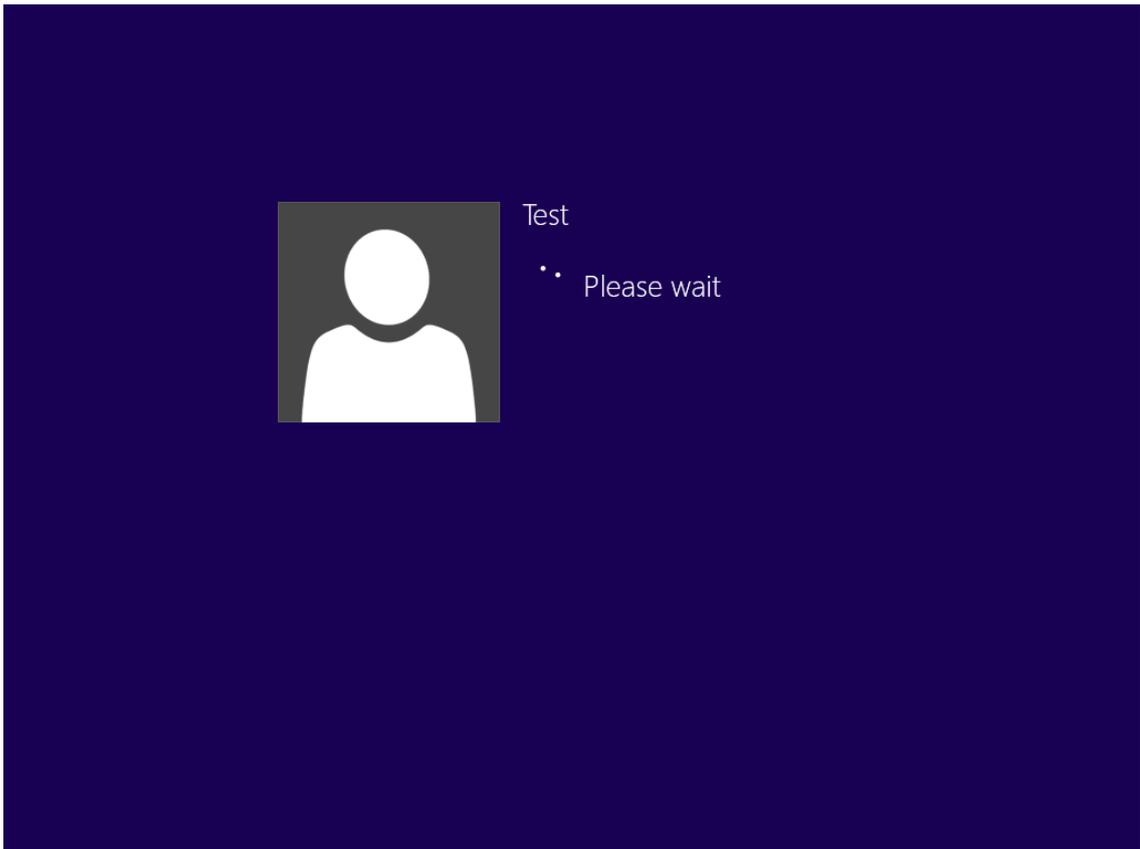
Password hint



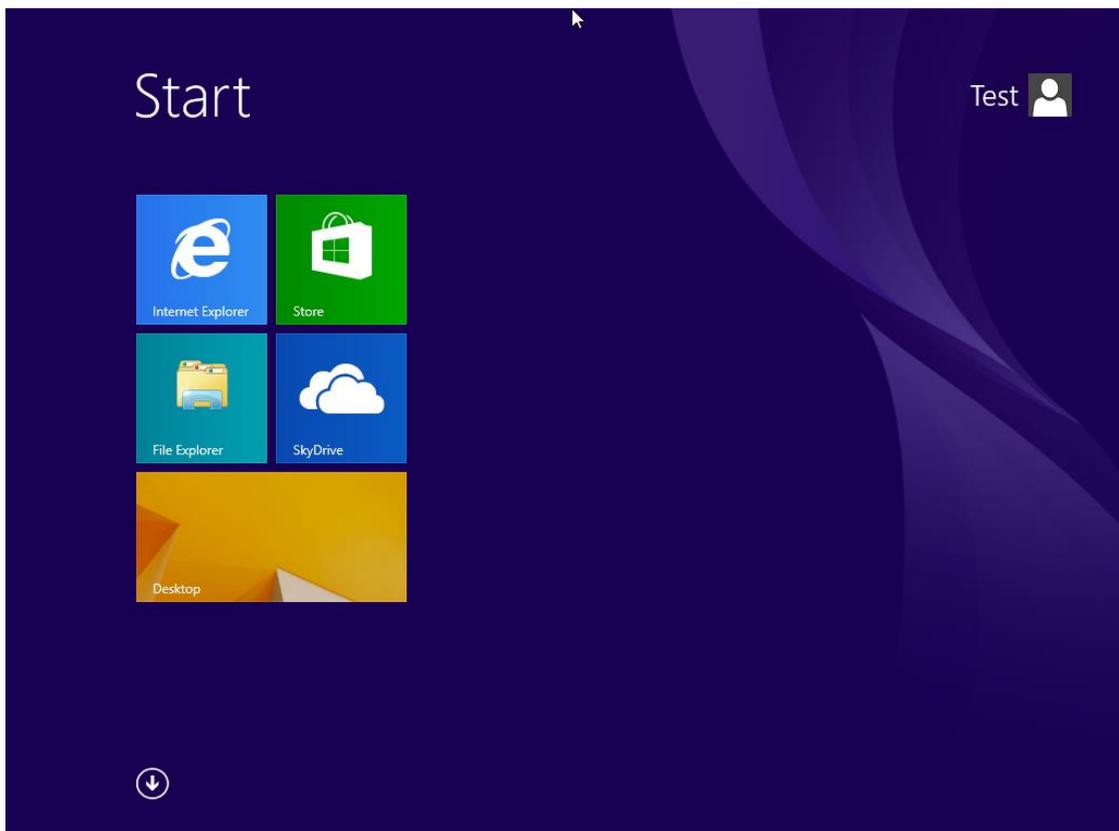
8. Windows may take some time to finalize your settings.



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



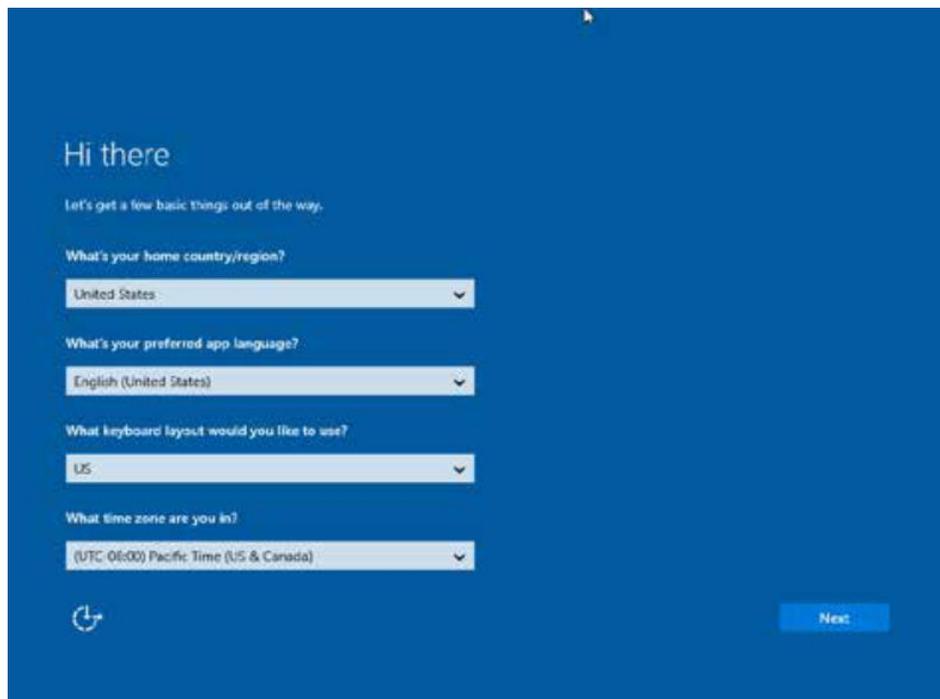
10. Once Windows finishes login, you are now ready to use the PC



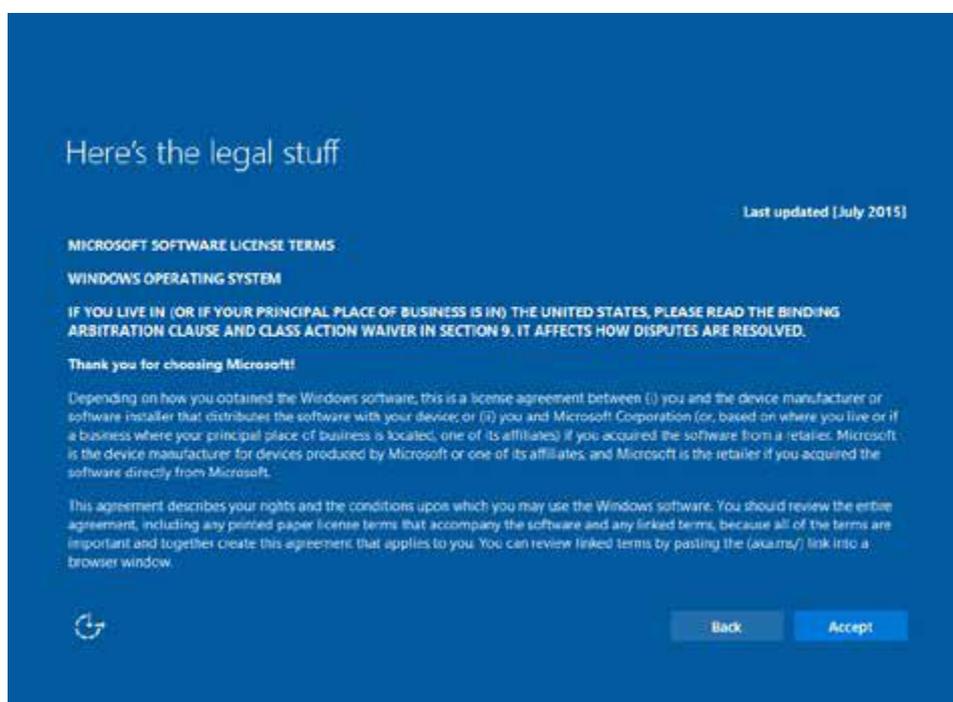
## Setting up Windows 10 IoT Enterprise

This section details how to setup different version of the Windows that may be installed on the tablet for the first time. 3.1 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**.

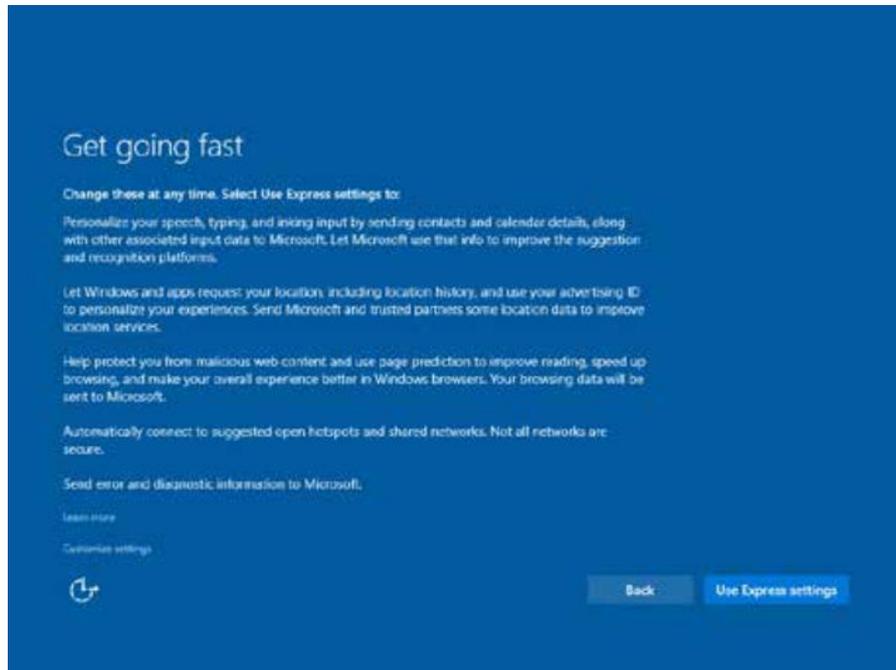


3. On the Here's the legal stuff screen, read through the disclosures, then tap **Accept**.

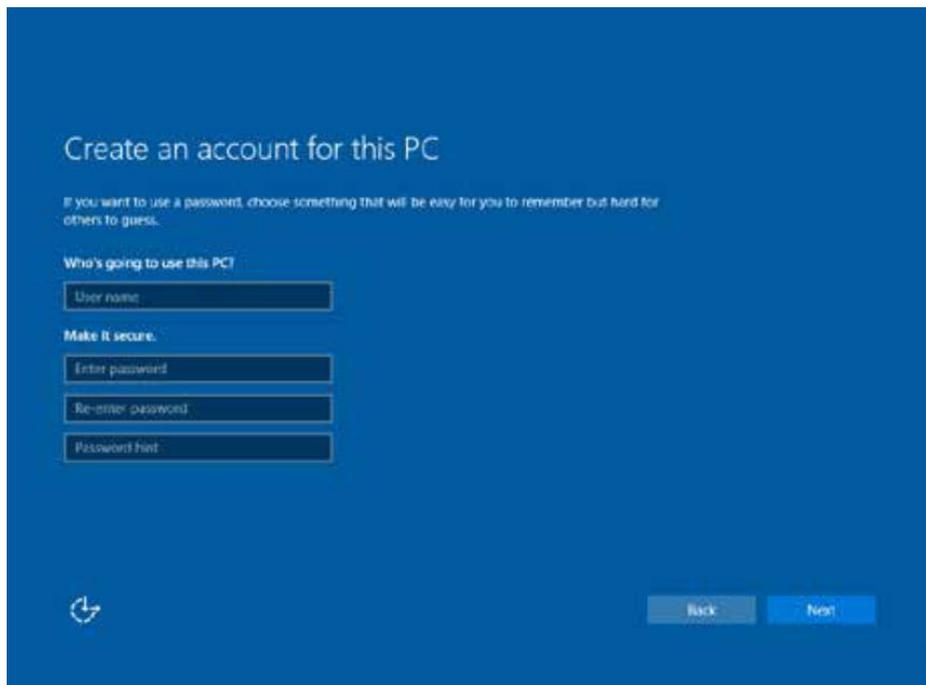


## R10IH8M-RTT2GP User Guide

- 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.
- 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.



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



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

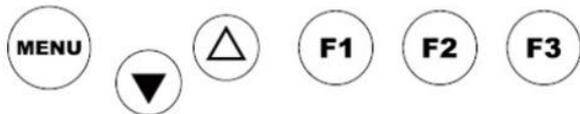
## Chapter 4: Quick Access with Hottab

### 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 opens and runs in the background. To display the Hottab control utility, press the (F1) 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 are explained in detail in the coming section.



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.

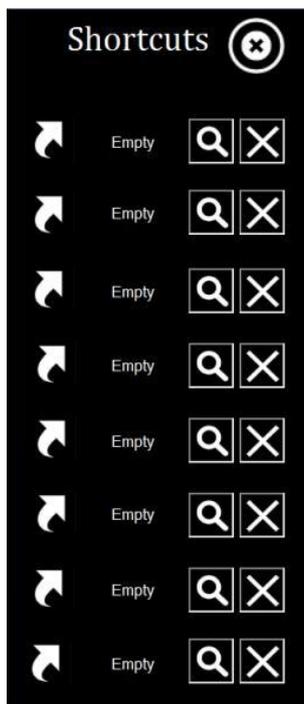
	<p>Setting button provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings.</p>
---	--

## Shortcuts

### Set up On-screen Software Shortcuts

Hottab Shortcuts Menu provides user-friendly interface to configure on-screen software shortcuts and allow users to quickly access programs with a few taps. 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. Launch 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. Launch 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:

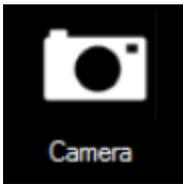
1. Launch the Hottab Utility application.
2. Tap on the **Shortcuts** button.
3. Tap on the saved shortcut items to access the saved programs.

## Camera

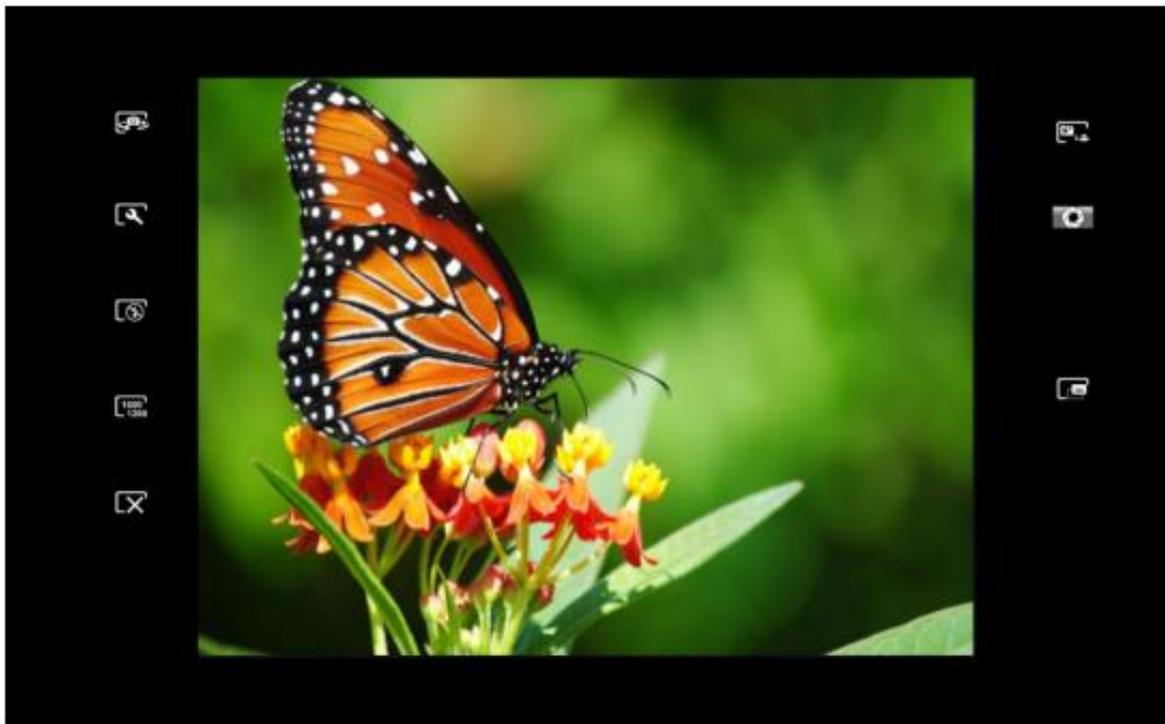
### Using Camera Features

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:

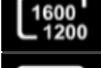
1. Launch the Hottab Utility application.
2. Tap on "Device ON/OFF" button to check the built-in devices status.
3. Check the status color of the **Camera** icon:

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. Tap on the HotTabCamera  shortcut 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: <ul style="list-style-type: none"> <li>• <b>Picture Save:</b> modify/inspect saved location for pictures.</li> <li>• <b>Video Save Folder:</b> modify/inspect saved location for video recordings.</li> <li>• <b>Picture Quality:</b> Picture compression quality.</li> </ul>
3	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 <b>640 x 480</b> .
		 Pictures will be saved at resolution of <b>1024 x 768</b> .
		 Pictures will be saved at resolution of <b>1600 x 1200</b> .
		 Pictures will be saved at resolution of <b>2592 x 1944</b> .
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.

## 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.



## Using the Wireless LAN (Wi-Fi)

To use the wireless LAN (Wi-Fi) feature to connect to the network, perform the following procedure:

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

Item	Status Color	Description
	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.

## Using the Wireless WAN (3G/LTE)

### **Insert SIM card (For optional 3G/LTE equipped device)**



#### **CAUTION**

Power off the tablet before installing the 3G/LTE module and micro SIM card, or the Tablet Computer might be damaged by the incorrect installation behaviors.

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

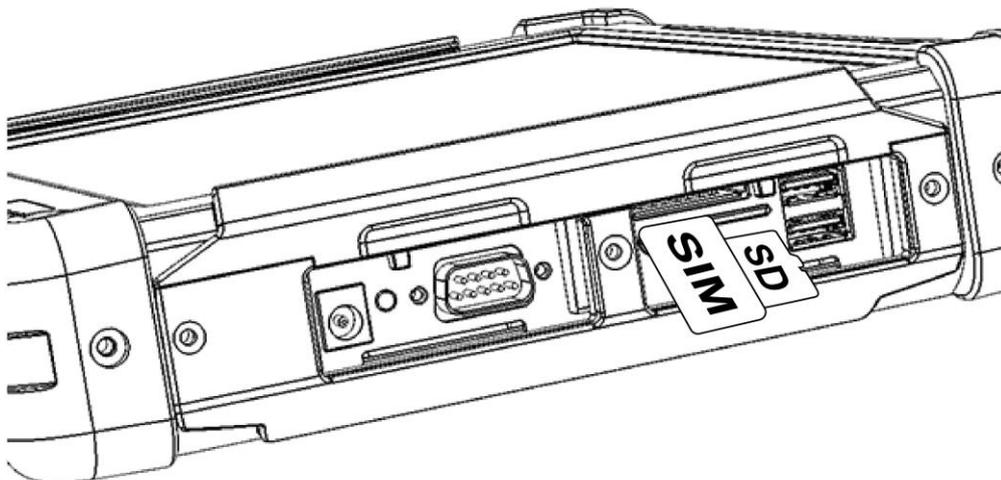


#### **NOTE**

3G/LTE feature is optional.

Before using the data connection program, please perform the following procedures to insert the SIM Card into your Tablet

1. Power off the Tablet Computer.
2. Open the I/O Cover
3. Insert the SIM card in to the SIM Card slot located under SD Card Slot.



## Use Wireless WAN Feature

For tablets equipped with wireless WAN (3G or 4G/LTE) card, 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.

## Using the 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.

## Using the 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.

## 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:

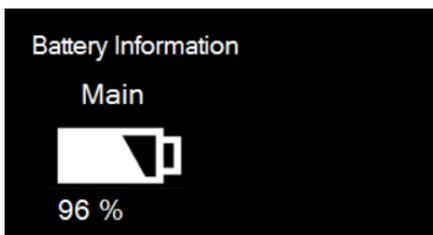
1. Launching the Hottab Utility application.
2. Tap on the **Settings** button.
3. Below show the items listed in Settings Menu.

### 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.

### Battery Information



This section provides user battery Information.

#### **Main Battery:**

The main battery Icon displays the battery level in percentages (0 to 100%).

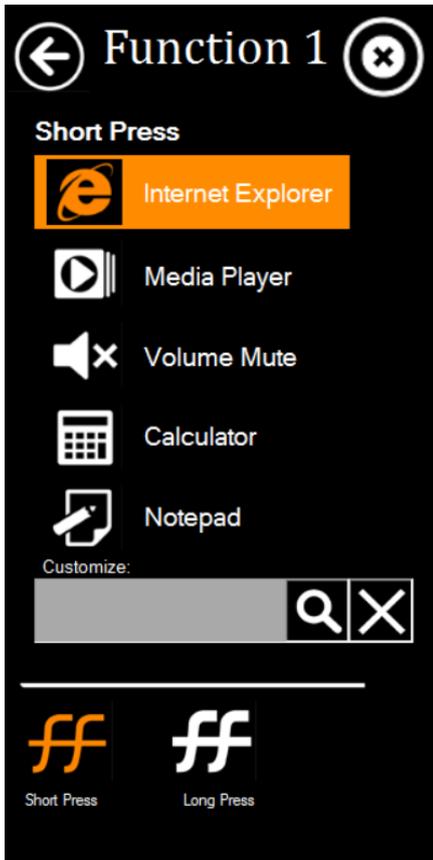
#### **Battery Charge Time:**

The Battery Information also displays estimated time needed to fully charge the main battery when AC adapter is plugged in.

### Using the Physical Function Keys (Hotkeys)



The function key mapping menu option allows user to change the physical function buttons, F1 and F2. 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. 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**

### **Screen Resolution Scaling and Setting**

The R10IH8M-RTT2GP 1024 x 768 high resolution display is perfect for viewing image, video, or other applications, however, Windows user interface (icons, buttons, and other user interface elements) may be too small to read and operate at the default Windows settings. By changing the display scaling or the display resolution setting of the device, you can adjust the size of the text and other items on the desktop for optimal viewing. Display scaling is the recommended method because it has the effect of adjusting user interface element without having to move away from the optimal resolution setting at 1024 x 768. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.



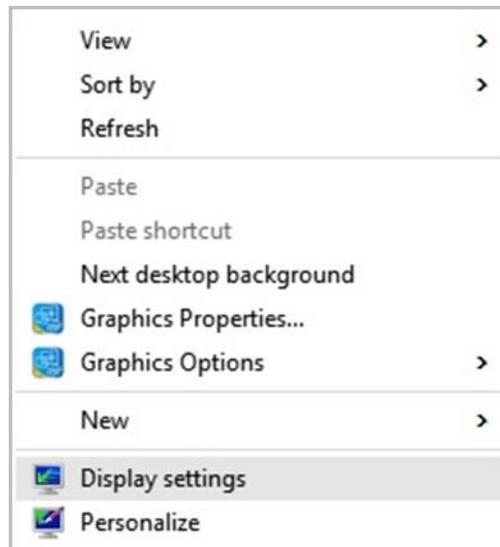
#### **NOTE**

- Winmate recommends 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.
-

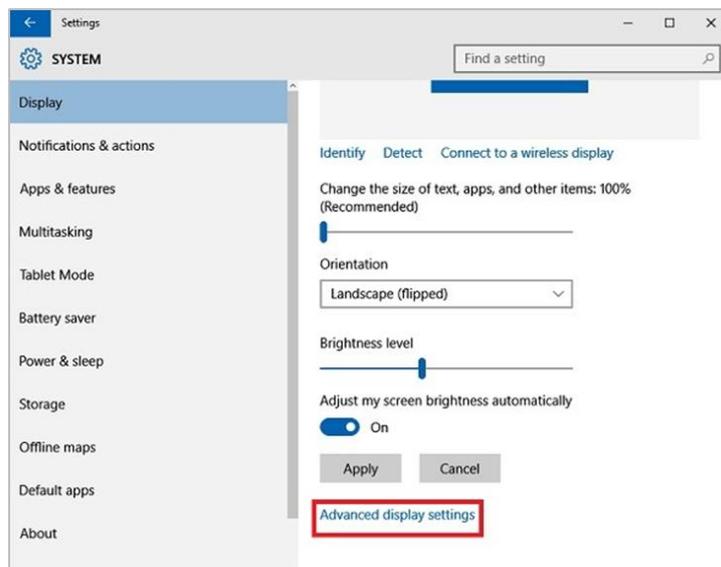
## Changing Display Scaling Setting (Recommended)

Perform the following to change display scaling setting:

1. Tap and hold anywhere on the desktop and right-click your mouse and go to” **Display Settings**” option as shown below:



2. The following panel will open. Here you can adjust the size of text, apps, and other items and also change the orientation. To change the resolution settings, scroll down this window and click on Advanced Display Settings



3. 1024 x 768 is the recommended screen resolution for R10IH8M-RTT2GP.

## Using Recovery Wizard to Restore Computer

R10IH8M-RTT2GP 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 R10IH8M-RTT2GP tablet computer.



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

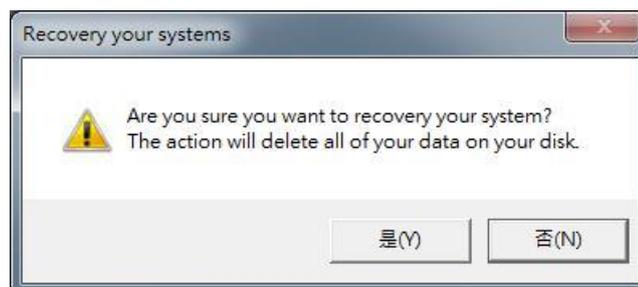
### **IMPORTANT**

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

1. Plug-in the AC adapter to R10IH8M-RTT2GP tablet computer. Make sure the R10IH8M-RTT2GP 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. After recovery is completed, and the tablet computer will restart automatically.



## **Chapter 6: Troubleshooting**

### **Basic Troubleshooting**

<b>Problem</b>	<b>Solution</b>
<b>The removable battery is not charging.</b>	<ul style="list-style-type: none"> <li>• Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.</li> </ul>
<b>Nothing appears on the screen.</b>	<ul style="list-style-type: none"> <li>• The tablet computer may be in sleep mode. Press the power button to wake up the display.</li> <li>• The brightness level may be too low. Increase brightness.</li> </ul>
<b>The screen suddenly turns blank and the power indicator goes off.</b>	<ul style="list-style-type: none"> <li>• Make sure that LED indicator is not powered off in Hottab.</li> <li>• Make sure the AC adapter is properly connected.</li> <li>• If running on battery power, the battery may be depleted, charge the battery.</li> </ul>
<b>Wireless LAN signal quality is poor.</b>	<ul style="list-style-type: none"> <li>• The tablet computer may be out of range. Move the tablet computer closer to the access point or another wireless LAN device associated with it.</li> <li>• Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.</li> </ul>
<b>I cannot connect to another wireless LAN device.</b>	<ul style="list-style-type: none"> <li>• Make sure that wireless LAN feature is powered on.</li> <li>• Make sure that the SSID setting is the same for every wireless LAN device in the network.</li> <li>• Restart the tablet computer</li> <li>• Make sure the IP address or subnet mask setting is correct.</li> </ul>
<b>I cannot connect to another device with Bluetooth.</b>	<ul style="list-style-type: none"> <li>• Make sure that both devices have Bluetooth powered on (For the Tablet Computer, check Hottab to see if Bluetooth is powered on).</li> <li>• Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between</li> </ul>

	<p>the devices.</p> <ul style="list-style-type: none"> <li>• Make sure the both devices are powered on and configured to be discoverable.</li> <li>• Make sure that both devices are compatible.</li> </ul>
<b>The GPS application cannot find my location.</b>	<ul style="list-style-type: none"> <li>• Make sure that GPS is powered on in Hottab.</li> <li>• Make sure that GPS receiver and the location sensor are enabled in Control Panel.</li> <li>• The tablet computer may be out of coverage area. Move your tablet computer outdoors or closer to a window.</li> <li>• Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.</li> </ul>
<b>No sound is produced.</b>	<ul style="list-style-type: none"> <li>• Adjust volume of the tablet computer by pressing on the volume rocker.</li> <li>• If using an external audio device, make sure that the cable is properly connected.</li> </ul>
<b>I cannot project the tablet computer display to another monitor.</b>	<ul style="list-style-type: none"> <li>• Make sure the VGA driver is installed.</li> <li>• Make sure the output setting selected is correct.</li> </ul>
<b>Barcode scanner does not emit laser beam and does not seem to work.</b>	<ul style="list-style-type: none"> <li>• Make sure the Barcode scanner device is enabled in Hottab utility.</li> <li>• Make sure under Windows, the Barcode Reader is set to COM 15 port, so that Hottab can trigger the Barcode Reader hardware.</li> </ul>
<b>Barcode Scanner emits laser beam but does not read barcode presented to it.</b>	<ul style="list-style-type: none"> <li>• Adjust the distance between barcode scanner of the device and the barcode being scanned.</li> <li>• Make sure the barcode code type is enabled in the tablet. To enable/disable a specific barcode code type, go through the “Barcode Scanner Configuration” section.</li> </ul>
<b>I am having GPS accuracy issue</b>	<ul style="list-style-type: none"> <li>• When utilizing the GPS function, we recommend disabling the Barcode Reader in Hottab to reduce interference.</li> </ul>

## Appendix A: Specifications

### Hardware Specifications

		<b>Model Name</b>
		R10IH8M-RTT2GP
<b>Display Specification</b>	Size	10.4-inch
	Resolution	1024 x 768
	Brightness	700 nits
	Touch	Resistive Touch
	Contrast Ratio	1200:1
<b>System Specification</b>	Processor	Intel® Core i5-5200U Broadwell 2.2GHz (turbo 2.7 GHz)
	System Memory	Default 4GB SODIMM DDR3L-1600 ( <i>up to 8GB</i> )
	Storage	Default 1 x 64GB M.2 MLC SSD ( <i>up to 512GB</i> )
	Operating System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro
<b>Wireless Communications</b>	WLAN + Bluetooth	Intel® 802.11 a/b/g/n Bluetooth 4.0 Dual Mode (Class 1 + Low Energy) Combo module
	GPS	u-Blox NEO-6Q
<b>System I/O Buttons Indicators Sensors Security</b>	Audio	Built in 1W speaker
	External I/O	2 x USB 3.0, 1 x Audio Combo Conn. (Mic in or Line Out), 1 x SD Card Slot, 1 x SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (set by jumper), 1 x RJ45
	Buttons	1 x Power, 1 x Menu, 3 x Function Key, 2 x Brightness control key
	LED Indicators	Power, Battery, HDD, RF
	Sensors	Light sensor
<b>Data Capture</b>	Camera	Rear: 5 MP at rear side Front: 2 MP at front side
<b>Power Management</b>	Power input	19V DC
	Battery	11.1V, 5200 mAh Lithium Ion Battery
	Battery Operating Time	8 hours
<b>Mechanical Specifications</b>	Dimensions (W x L x H)	266 x 220 x 50.5 mm
	Weight	2.39 kg
	Housing	Magnesium Aluminum Alloy

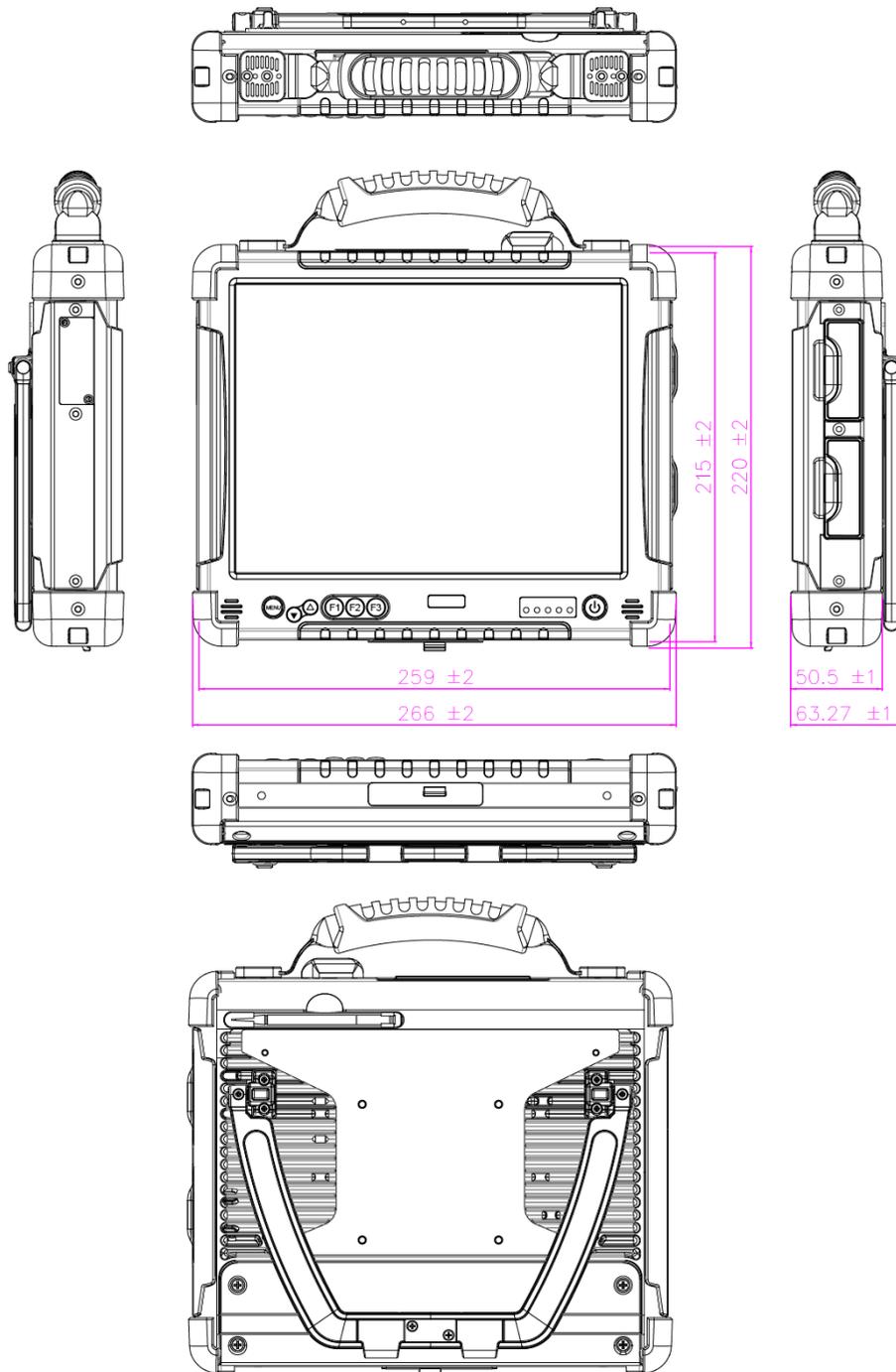
<b>Environmental Considerations</b>	Operating Temp.	-20°C ~ +60°C (AC Mode) -10°C ~ +50°C (Battery Mode)
	Humidity	5% to 95% RH, non-condensing
	IP Proof	IP65
	Shock	MIL-STD-810G Method 516.6 Procedure I
	Vibration	MIL-STD-810G Method 514.6 Procedure I
	Drop	MIL-STD-810G Method 516.6, 4 ft to concrete
<b>Optional Module</b>	WWAN	4G (LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1 x RTT) 3G (HSPA+, GSM/GPRS/EDGE)
	Data Capture	1D/ 2D Barcode Reader (Optional)
<b>Standards and Certifications</b>	CE, FCC	

*\*Note: Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.*

*\*\*\*Note: All specifications are subject to change without prior notice.*

## Appendix B: Dimensions and Schematics

### Default Configuration



## **Appendix E: Software Development Kit (SDK)**

Download SDK from Winmate Download Center or Winmate Partner Portal.

1. **Winmate Download Center:**  
<http://www.winmate.com.tw/> > Support > Download Center > Ultra Rugged Tablet > IH83 >
2. **Winmate File Share**  
<http://www.winmate.com.tw/> > Support > Partner Portal > Public Documents > Rugged Tablet PC



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