M133TG Series

Ultra-Rugged Windows Tablet

Intel® Core i5-1135G7 2.40 GHz (turbo up to 4.20 GHz)

Windows® 10 IoT Enterprise

User Manual

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Contents

Chapter 1: Read Me First 2
1.1 Advisory Conventions 2
1.2 Safety Information 3
1.3 Handling and Maintenance 5
Chapter 2: Getting Started 6
2.1 Unpacking 6
2.2 Description of Parts 7
2.3 Mechanical Dimensions 8
2.4 Combination Keys (Keyboard Key Emulation) 9
2.5 LED Indicators 9
Chapter 3: First-Time Operation 10
3.1 Installing 4G LTE Module 10
3.2 Installing SIM Card 11
3.3 Installing a Battery Pack 11
3.4 Connecting to Power Supply 12
3.5 Adjusting Kickstand Position 12
3.6 Turning On and Off 13
Chapter 4: Setting Up Windows for the First Time 14
4.1 Introduction 14
4.2 Setting up Windows 10 IoT Enterprise 14
Chapter 5: Operating the Device 19
5.1 HotTab Introduction 19
5.2 Using Physical Function Keys (Hotkeys) 20
5.3 Changing Touch Mode 22
5.4 Using the Barcode Reader 22
5.5 Using the Wireless LAN (Wi-Fi) 23
5.6 Using the Wireless WAN 24
5.7 Using the GPS 24
5.8 Using the BT feature 25
5.9 Using Hot-Swap Battery Function 26
Chapter 6: Frequently Used Settings 27
6.1 Screen Resolution Scaling and Setting 27
6.1.1 Changing Display Scaling (Recommended) 27
6.1.2 Changing Screen Resolution 28
6.2 Accessing the Device Information (HotTab Setting) 30
6.3 Using Recovery Wizard to Restore Computer 31
6.4 Pairing with a Wireless Bluetooth Barcode Scanner 33
6.4.1 Setup Computer for Bluetooth Pairing 33
6.4.2 Set up the Barcode Scanner for Bluetooth Pairing 36
6.4.3 Perform Bluetooth Pairing 36
6.5 Basic Troubleshooting 38
6.6 COM Port Definition 39
Appendix 41
Appendix A: Hardware Specifications 41
Appendix B: Docking Connector Pin Definition 42

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.

Note:
A note is used to emphasize helpful information

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

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

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

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

Low Voltage Directive (2014/35/EU)

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

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

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.

Chapter 2: Getting Started

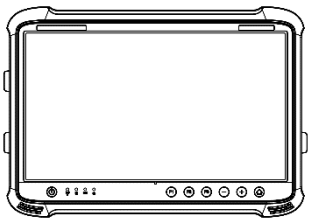
Congratulations on purchasing Winmate® M133TG Ultra Rugged Tablet Computer. The rugged design allows you to use it in harsh outdoor environments.

This quick start guide tells you step by step how to get the Tablet Computer up and running.

2.1 Unpacking

Check and identify the supplied accessories:

- **Rugged Tablet Computer**

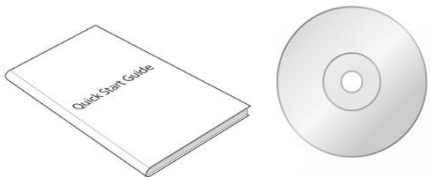


- **Standard Battery**

- **Power Adapter**

- **Power Cord and Plugs**
  Varies by country

- **Quick Start Guide & Driver CD**

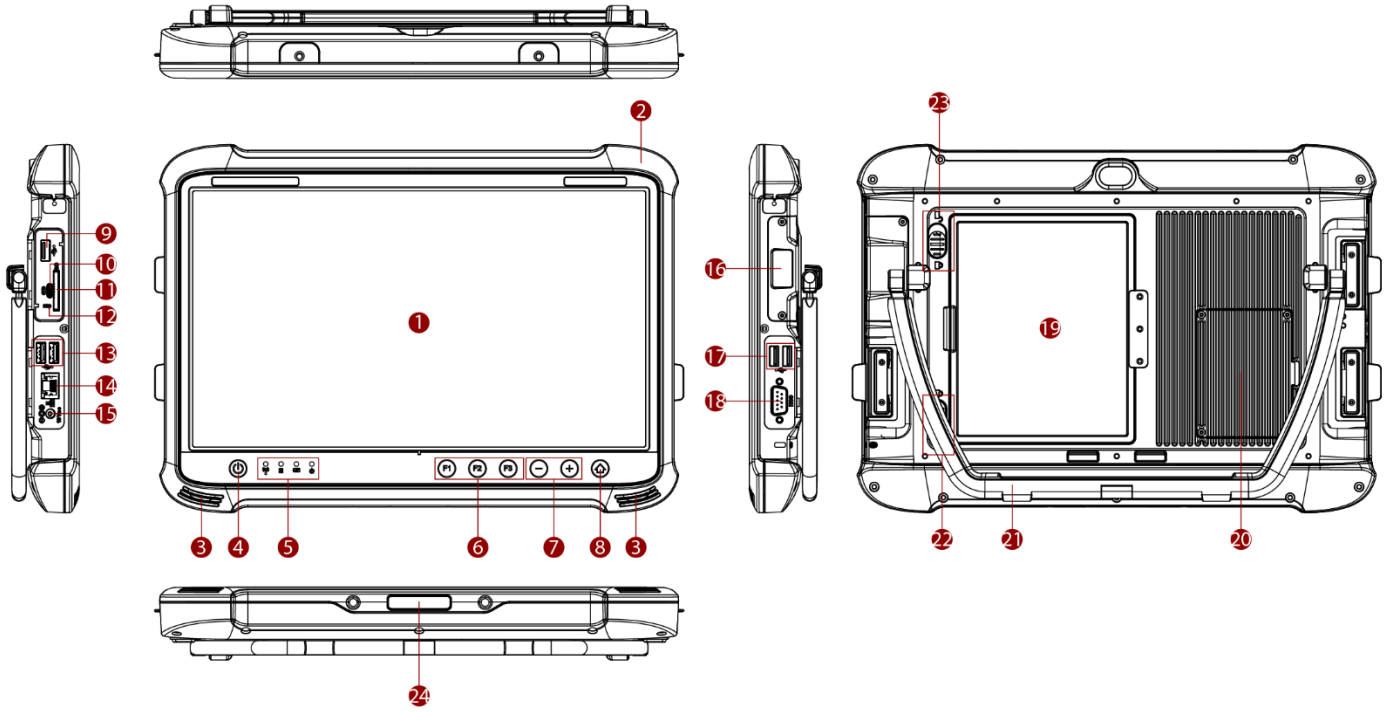


- **Stand with Integrated Handle**

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

- **VESA Mounting Kit**
- **VESA Mounting Kit 2**
- **RAM Mounting Kit**
- **Vehicle Charger**

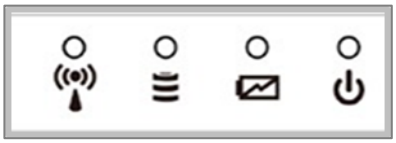
2.2 Description of Parts



No	Item	Description
1	13.3” PCAP Touchscreen	1920 x 1080 resolution, supports Glove/ Rain/ Stylus mode.
2	Protection Rubber	Protects tablet from drops.
3	Speakers	Emit sounds.
4	Power Button	Turns on/off tablet computer.
5	LED Indicators:	Show the current status of the tablet computer.
	RF	**Green** – WLAN/ BT/ 4G LTE/ GPS is ON. **No light** - None of WLAN / BT/ 4G LTE/ GPS is ON.
	HDD	**Green** – Hard drive activity. **No light** – Hard drive idling.
	Battery	**Orange** – AC adapter is plugged in and charging. **Green** – AC adapter is plugged in and battery is completely charged. **Solid Red** - Low battery (<10%). **Blinking Red** – Battery is being hot swapped. **Not lit** – Battery is in use and more than 10%.
	Power	**Blue** – Tablet is ON. **No light** – Tablet is OFF.
6	Fn Buttons	Programmable function buttons: F1, F2, F3.
7	+/- Buttons	Brightness control buttons.
8	Menu Button	HotTab quick access.
9	USB Type A	High speed USB ports, connects to USB devices such as USB flash drive, mouse, keyboard, printer, etc.
10	USB Type-C	USB Type-C connector to connect to external devices. **Note:** The USB Type-C connector follows USB 3.0 standard, which does not support Alternate Mode (ALT) or USB Power Delivery (USB-PD).
11	SD Card Slot	Memory card reader port for SD card.
12	Reset Buttom	Reset button to reset the device.
13	USB Type A	High speed USB ports, connects to USB devices such as USB flash drive, mouse, keyboard, printer, etc.
14	RJ45-10/100/1000 Mbps LAN	Provides connection to the Ethernet (LAN) networks.
15	Power Jack	DC power input jack 19 V DC.

No	Item	Description
16	Barcode Reader (Optional)	Barcode reader is an electronic input device that can be used to scan barcodes and read the information contained in the barcode.
17	USB Type A	High speed USB ports, connects to USB devices such as USB flash drive, mouse, keyboard, printer, etc.
18	COM	RS232(DB9) Port.
19	Battery	User-replaceable battery 15.4V, typ. 5900 mAh Li-ion Battery (4S1P)
20	Service Window	Access to 2 SSD M.2 slots,1 WWAN mPCIe slot, and Micro SIM Slot.
21	Kickstand Handle	User-adjustable 180° kickstand handle.
22	Battery Lock Latch	Latch to lock the battery once battery is inserted. Not spring-loaded.
23	Battery Release Slider	Spring-loaded slider that latches the battery in.
24	Docking Connector	Docking connector to connect docking accessories

Front LED Indicators Detail:

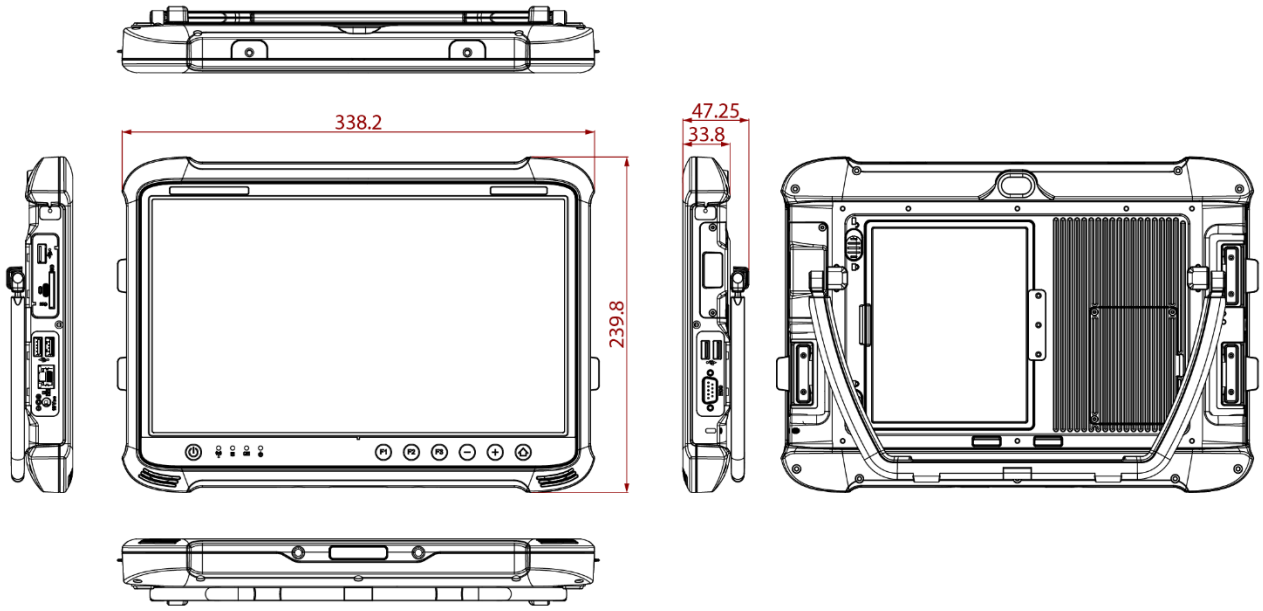


Docking Connector Detail:

Front Button Details:

2.3 Mechanical Dimensions

Unit: mm



2.4 Combination Keys (Keyboard Key Emulation)

For the physical buttons on the 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 boots up):

Buttons	Keystroke
Fn1	F6 to enter Recovery Menu.
Fn2	Esc to enter BIOS setup screen.
Fn3	Keyboard F3.
Up (+)	Up.
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: Notepad
Fn3	Open Calculator
Up (+)	Increase brightness
Down (-)	Decrease brightness
Power	Power ON/ OFF
Volume Up (+) + Volume Down (-)	Ctrl + Alt + Del

2.5 LED Indicators

LED Indicators (Power, Battery, Disk Activity, RF Communications) are located at the front side of the M133TG Ultra Rugged Tablet.

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

Chapter 3: First-Time Operation

3.1 Installing 4G LTE Module

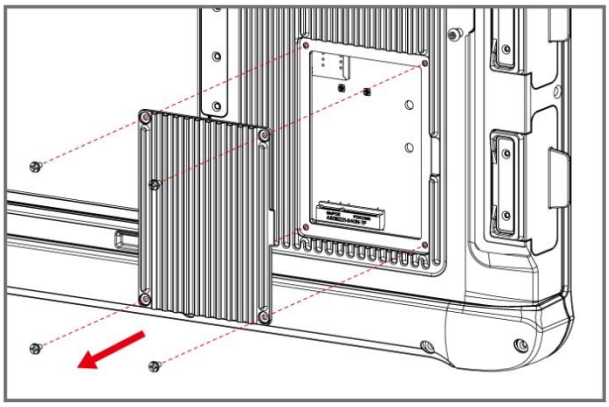
Notice that 4G LTE feature is optional and may not be supported by your device. Check your order specifications for more details.

The M133TG Ultra Rugged Tablet Computer supports 4G LTE data connection and fits a Micro-SIM card. Before installing fits a Micro-SIM card please install the 4G LTE module.

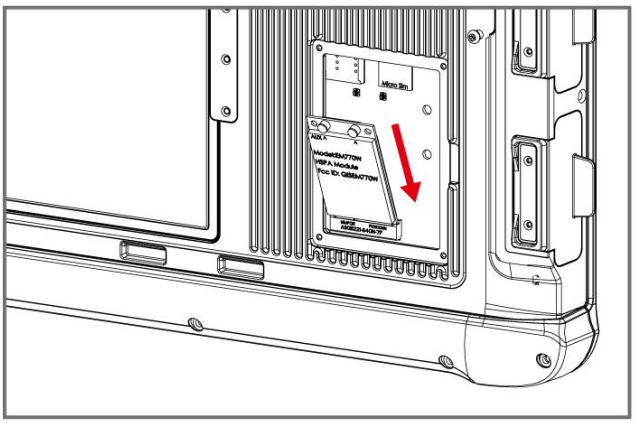
To install the LTE module:

Tools Needed:	**Service Windows** Screw: M2x5, 4 pc Screwdriver: Philips Type , Size #0 , for M2 screws, torque: 2.0 ± 0.5 kgf.cm	**4G LTE Module** Screw: M2x3.5, 1 pc Screwdriver: Philips Type , Size #0 , for M2 screws, torque: 2.0 ± 0.5 kgf.cm

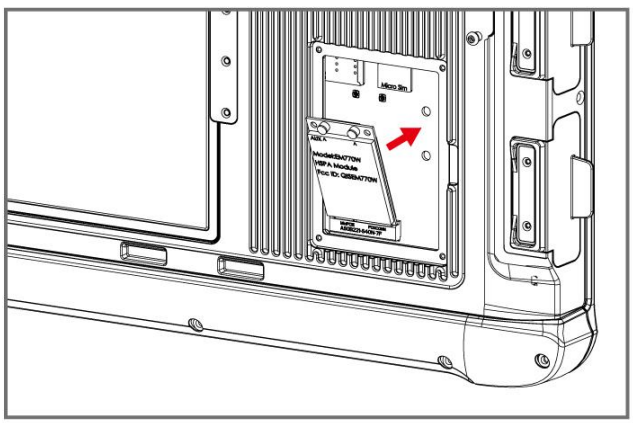
❶ Remove four screws and remove the service window.



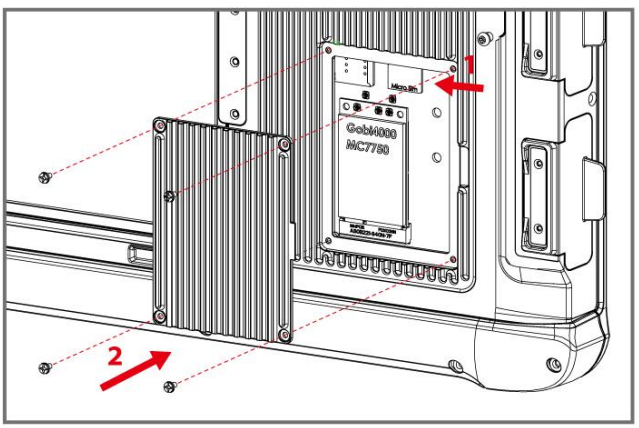
❷ Insert module card to its slot and connect two cables to the 4G LTE module card. **Do not to damage the connected cables!**



❸ Push the 4G LTE module card down to insert it to its position and fasten one screw. Accurately route the cables. **Do not bend cables! Do not pinch/ squeeze the cables!**



❹ Insert the SIM-card, re-insert the service window and fasten with the four screws.



Caution When re-inserting 4G LTE module, please pay attention to cable routing. Make sure the cable module does not get squeezed.
Attention Lorsque vous réinsérez le module 4G LTE, faites attention au routage des câbles. Assurez-vous que le module de câble n'est pas coincé.

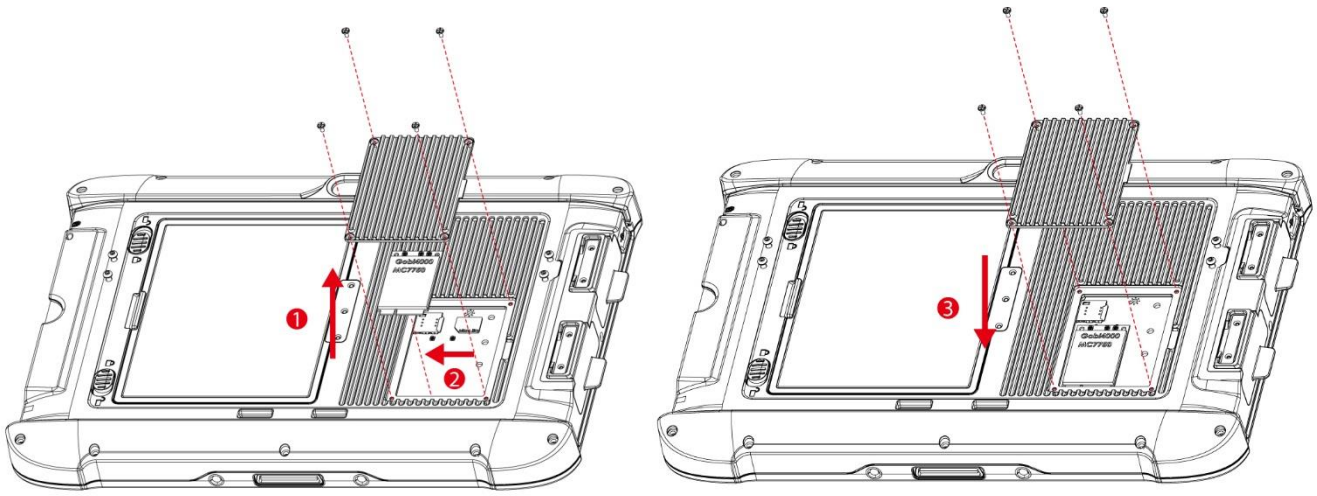
3.2 Installing SIM Card

Notice that 4G LTE is an optional feature and may not be present in your device. The Tablet Computer supports data connection using 4G LTE SIM cards and fits a Micro-SIM card.

Caution Please make sure the tablet is powered off, before opening up the service window to insert the SIM card.
Attention Veuillez vous assurer que la tablette est hors tension avant d'ouvrir la fenêtre de service pour insérer la carte SIM.

Perform the following to install the SIM card into your Tablet Computer:

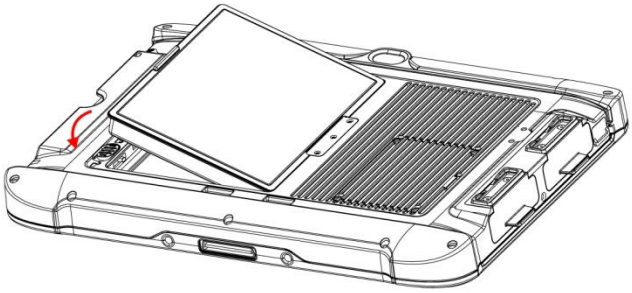
1. Disconnect any cords connected to the tablet computer.
2. Remove the service window in the rear by unscrewing four screws.
3. Remove the screw that is securing the 4G LTE module.
4. Carefully lift the 4G LTE wireless module up, and be cautious not to damage the connected cable.
5. Make sure the SIM card IC contact patch is faced down; notch is in the direction of insertion (towards right).
6. Insert the 4G LTE SIM card into the slot located near the right side of the service window.
7. Reposition the removed 4G LTE module screw to secure the 4G LTE module.
8. Reposition the removed service window screw to secure the service window.

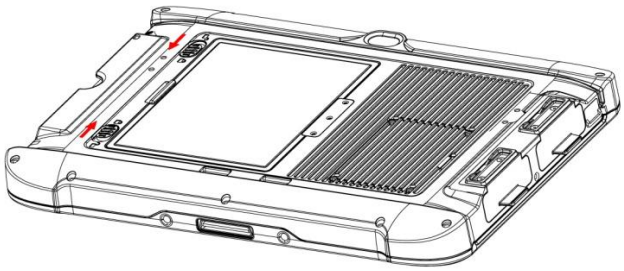


3.3 Installing a Battery Pack

To insert the included standard battery pack into the Tablet Computer:

1. Disconnect any cords connected to 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.
6. Continue to hold the Battery Release Slider before battery is fully inserted.
7. Make sure the battery is completely lowered into the compartment before letting go the Battery Release Slider.
8. Battery will be flat against the housing once fully inserted.





To remove the battery pack:

1. Shut down the tablet computer (or put it to sleep). Disconnect any cords connected to the tablet.
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.

3.4 Connecting to Power Supply

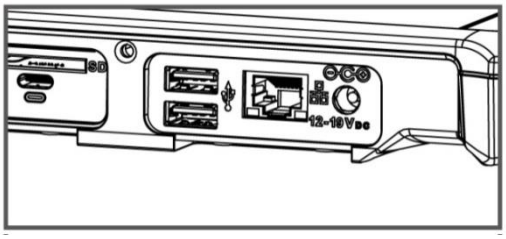
The Tablet Computer operates either on external AC power or internal battery power. It is recommended to use AC power when you start up the Tablet Computer for the first time.

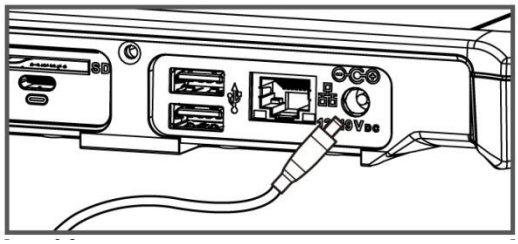
Caution Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

Attention N'utilisez que l'adaptateur secteur fourni avec votre ordinateur tablette. L'utilisation d'autres adaptateurs secteur peut endommager l'ordinateur tablette et la batterie.

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.

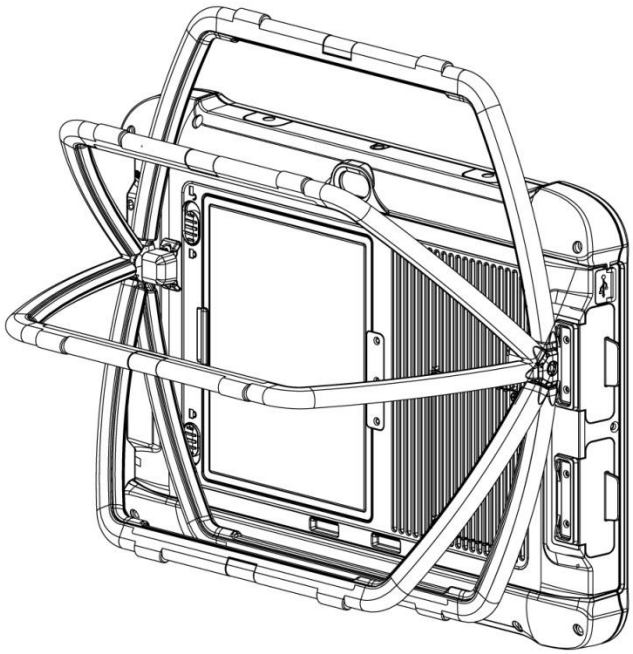




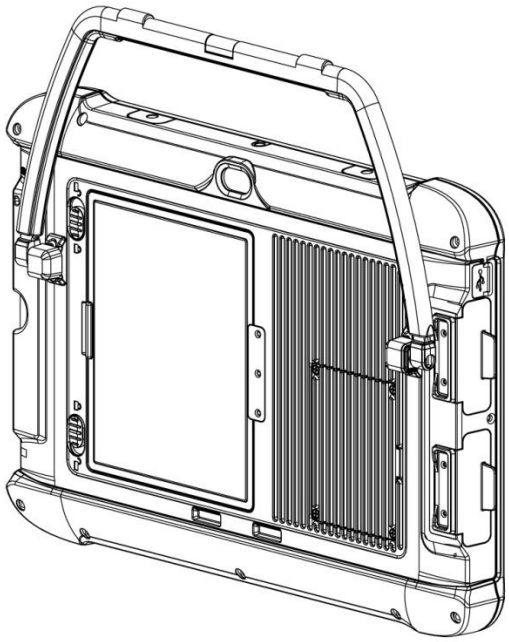
When the AC Adapter is connected, the battery pack starts charging. The battery LED indicator on the tablet computer will show different states. Please refer to description of the LED indicator in the Description of Parts.

3.5 Adjusting Kickstand Position

The M133TG Series Ultra Rugged Tablet has an integrated kickstand. The user can adjust the kickstand for variable positioning on any surface. The kickstand can also act as an ergonomic handle for easy carrying. To use as a handle simply adjust the kickstand to the topmost position.



Adjusting Kickstand Position 180°



Handle Position

3.6 Turning On and Off

Turning 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

Turning 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. Tap on the **Settings** charm.
3. Tap on **Power**.
4. Tap on **Shut Down**.
5. Wait for Tablet Computer to power off.

Note: If system does not respond, please forcibly turn the tablet computer off by pressing and holding the power button for **6 seconds or longer**.

Chapter 4: Setting Up Windows for the First Time

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

4.1 Introduction

The M133TG Ultra Rugged Tablet operates on Windows 10 IoT Enterprise operating system.

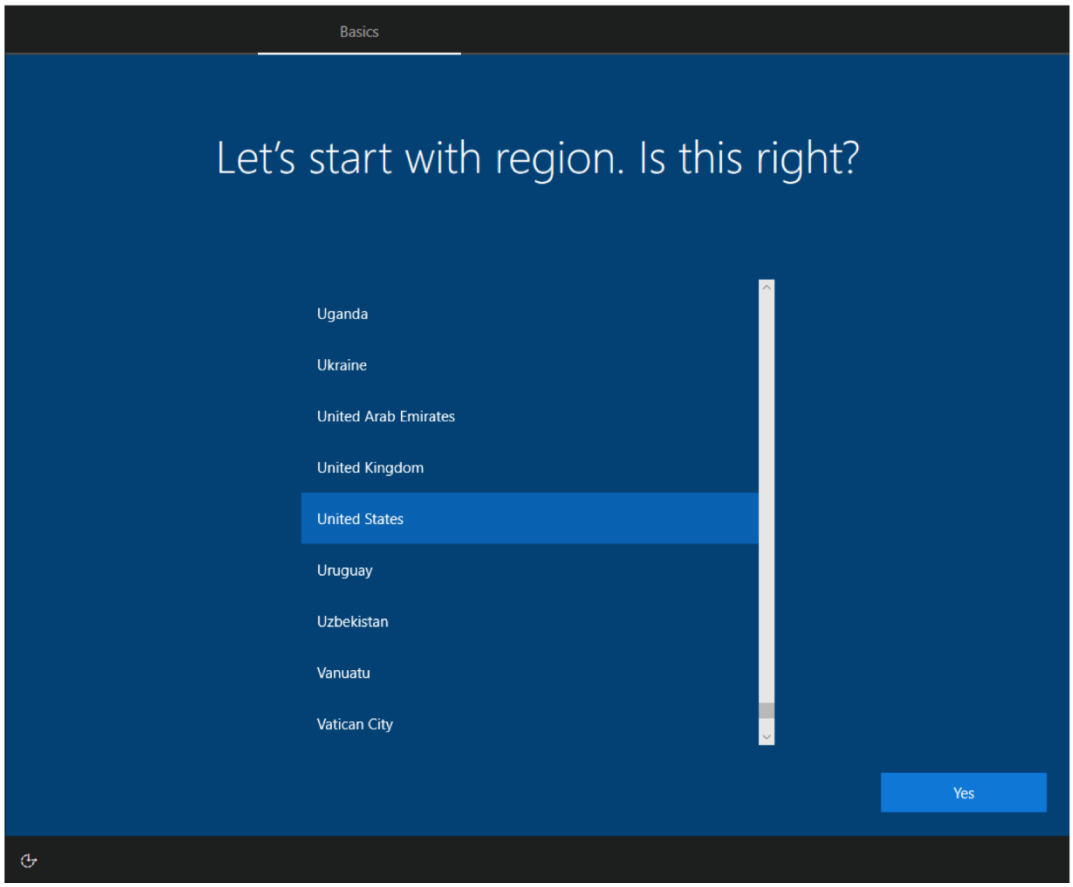
Caution Make sure the battery is full charged before starting the Tablet Computer for the first time with internal battery power.
Attention Assurez-vous que la batterie est complètement chargée avant de démarrer la tablette PC pour la première fois avec la batterie interne.

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

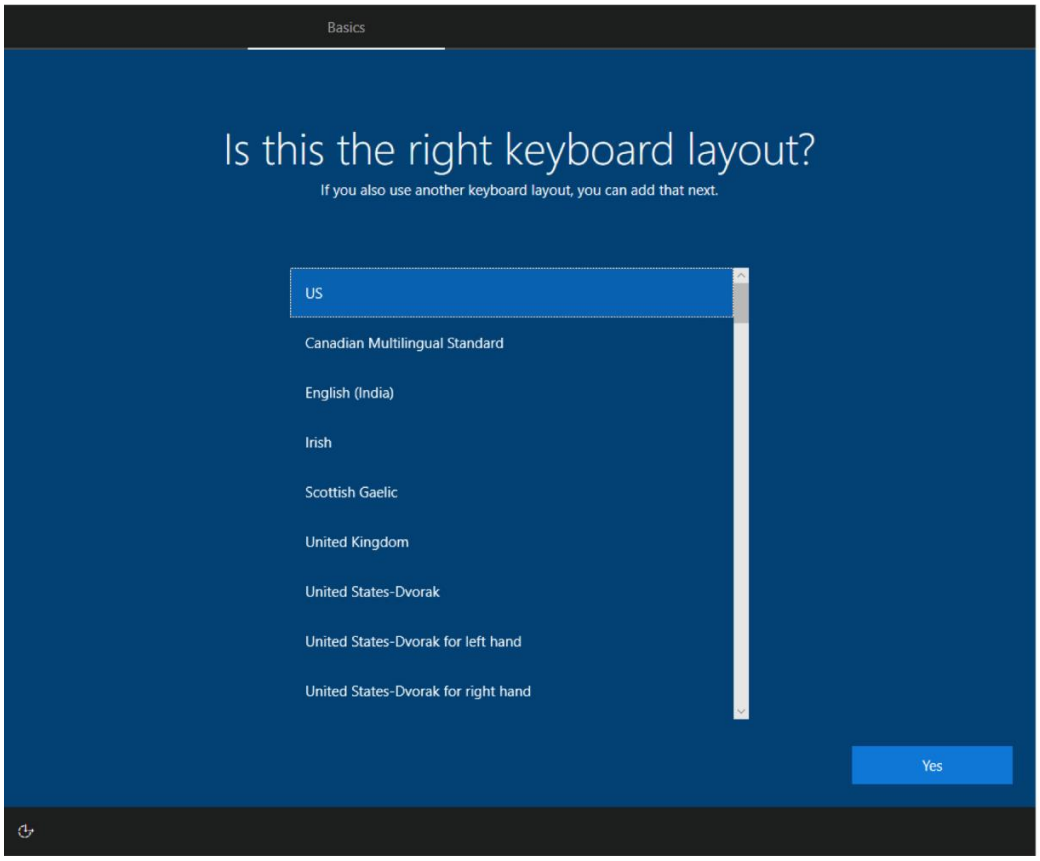
4.2 Setting up Windows 10 IoT Enterprise

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

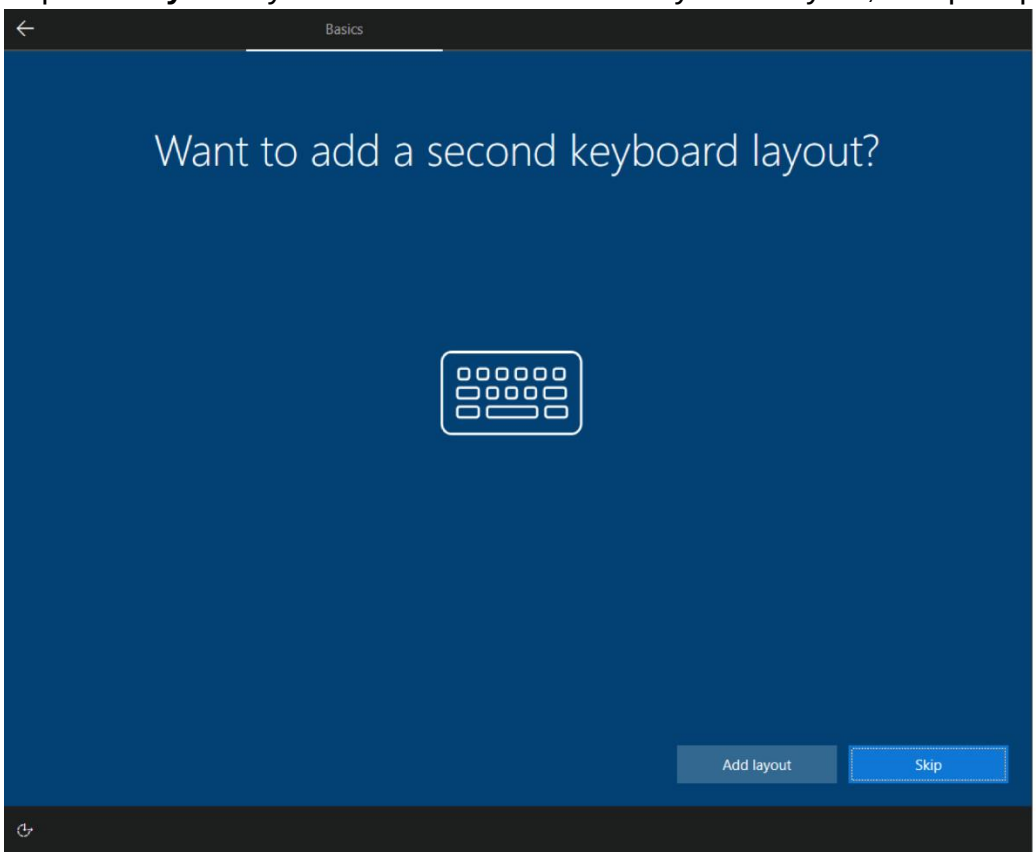
1. Press the power button to turn on the computer.
2. Select your region, then tap Yes.



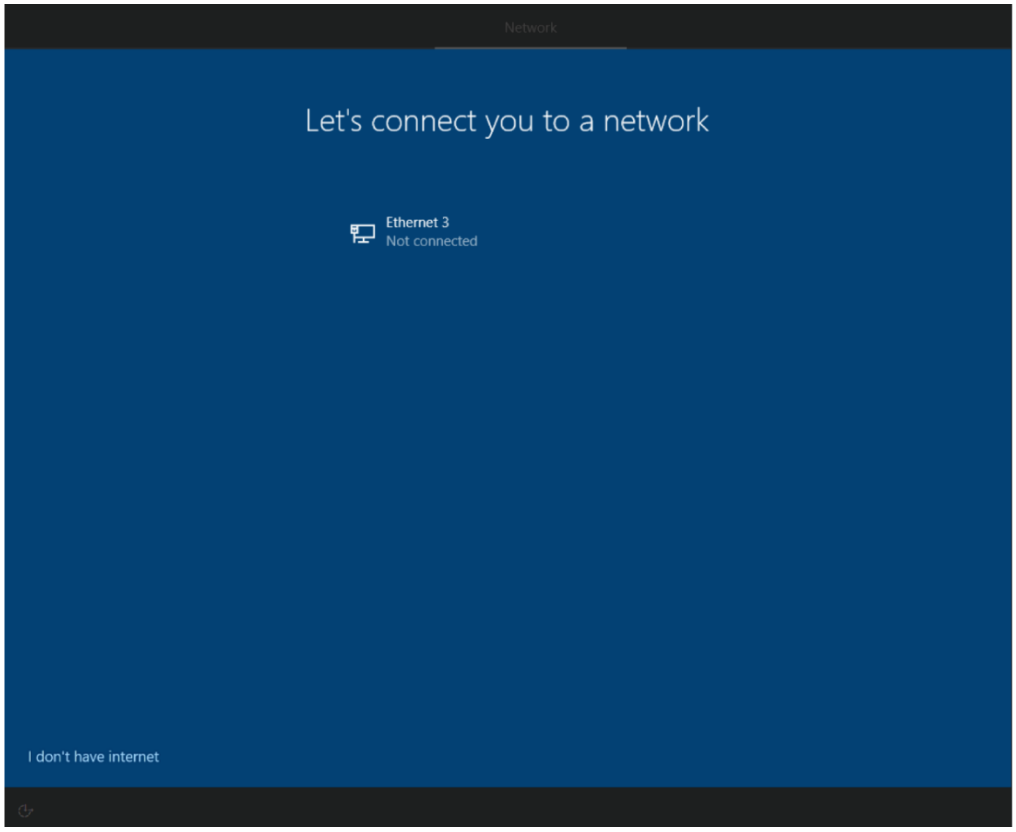
3. Select your preferred keyboard layout, then tap **Yes**.



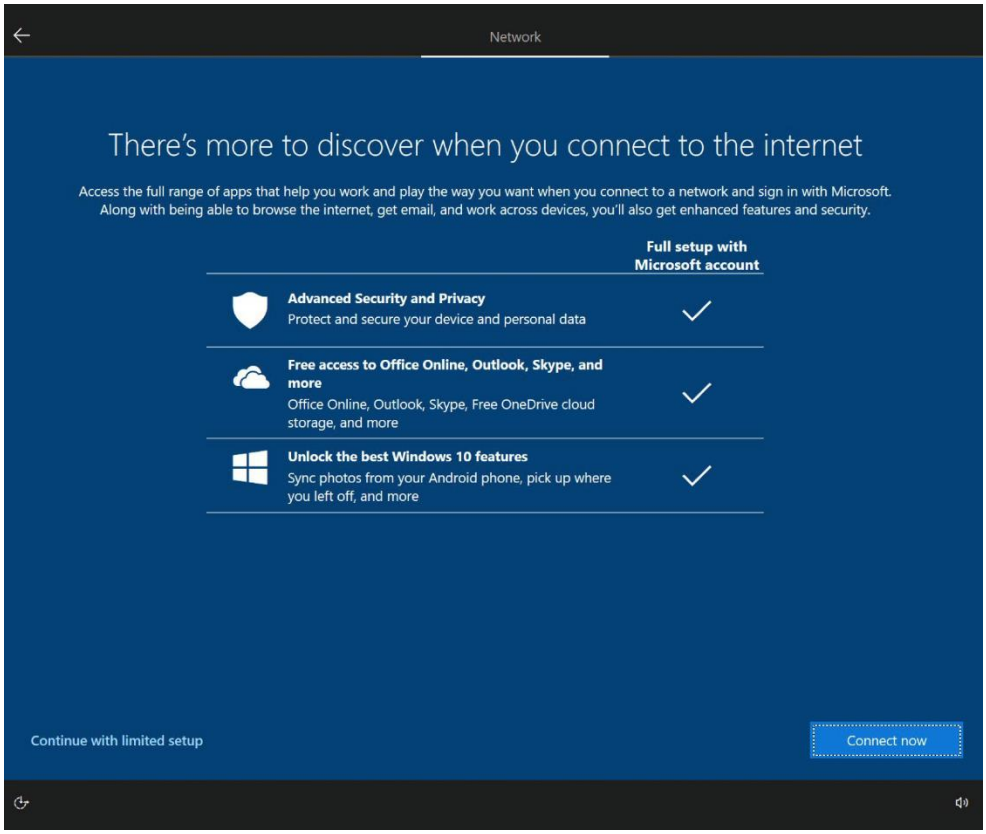
4. Tap **Add layout** if you want to add a second keyboard layout, or tap Skip for the next step.



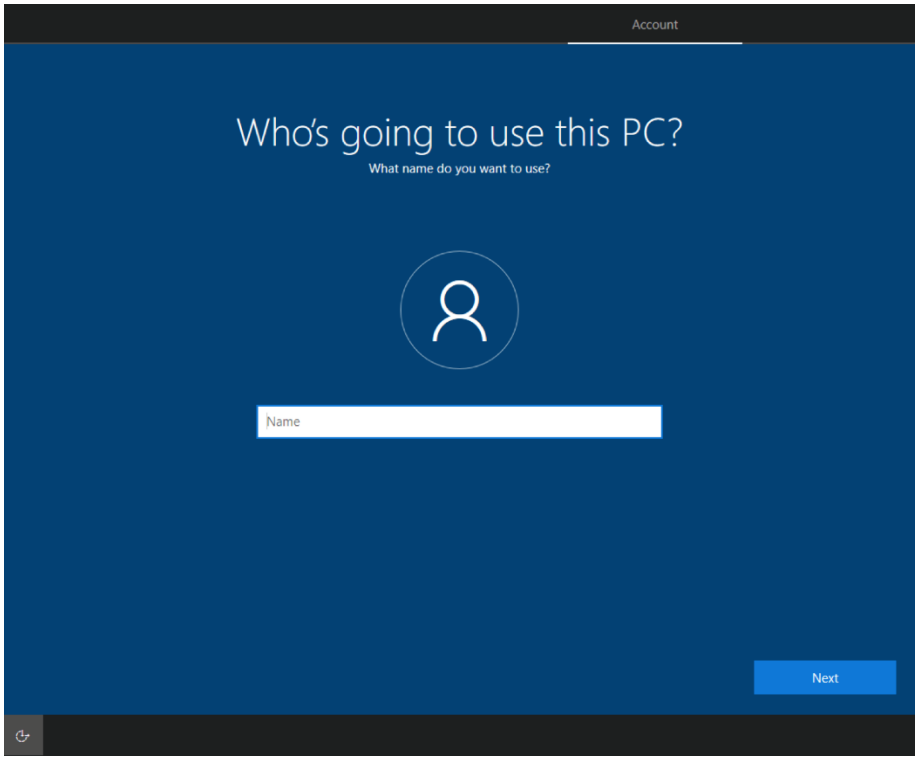
5. Windows will then try to connect you to a network. Select your network or tap **I don't have internet** to continue without a wireless connection, as you can set up the network later. You'll then jump to 7. if you don't connect to a network.



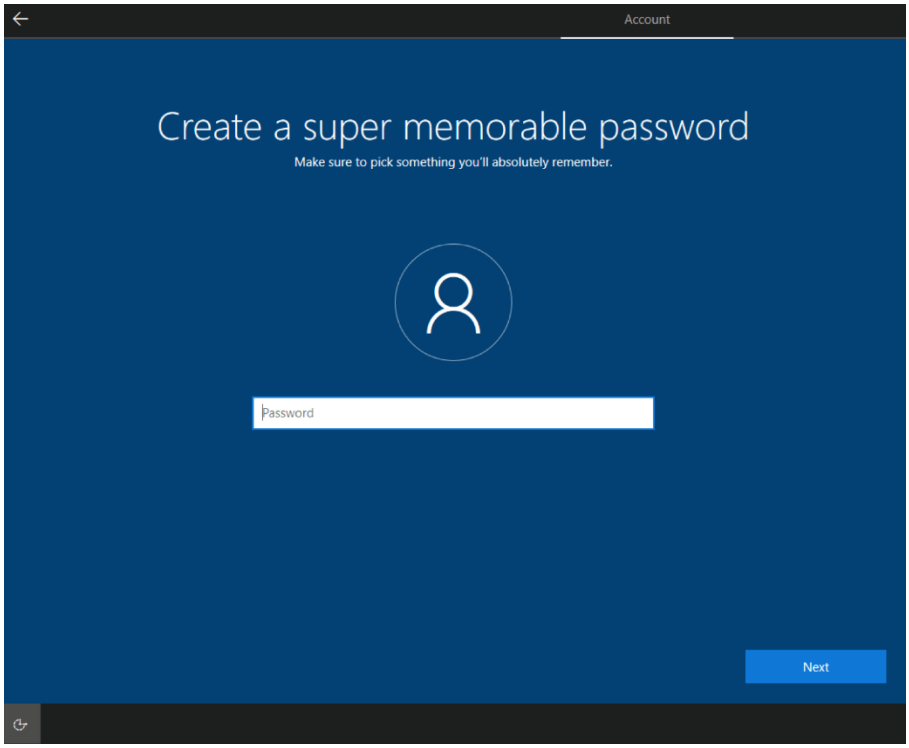
6. Tap **Connect now** to connect to your Microsoft account so that you could get the features and security, or tap **Continue with limited setup** to continue without connecting to the account, as you can connect to your account later.



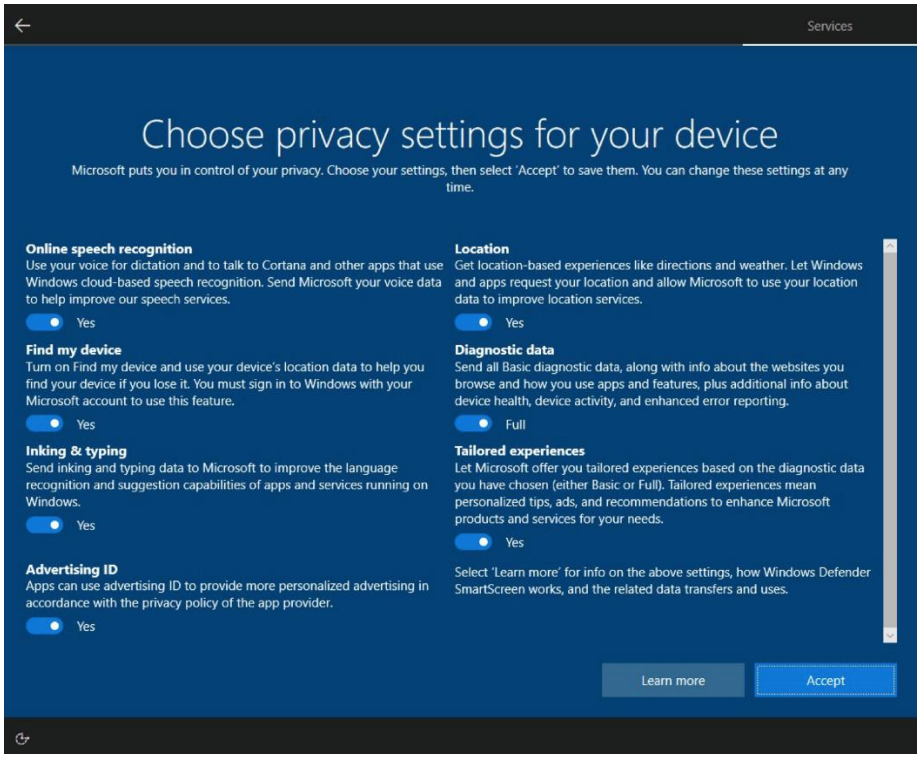
7. Type your name, then tap **Next**.



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



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



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

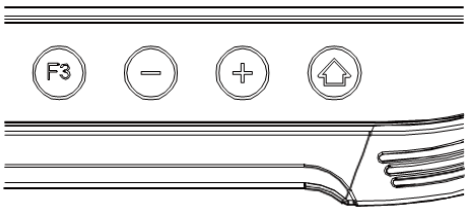
Chapter 5: Operating the Device

5.1 HotTab Introduction

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

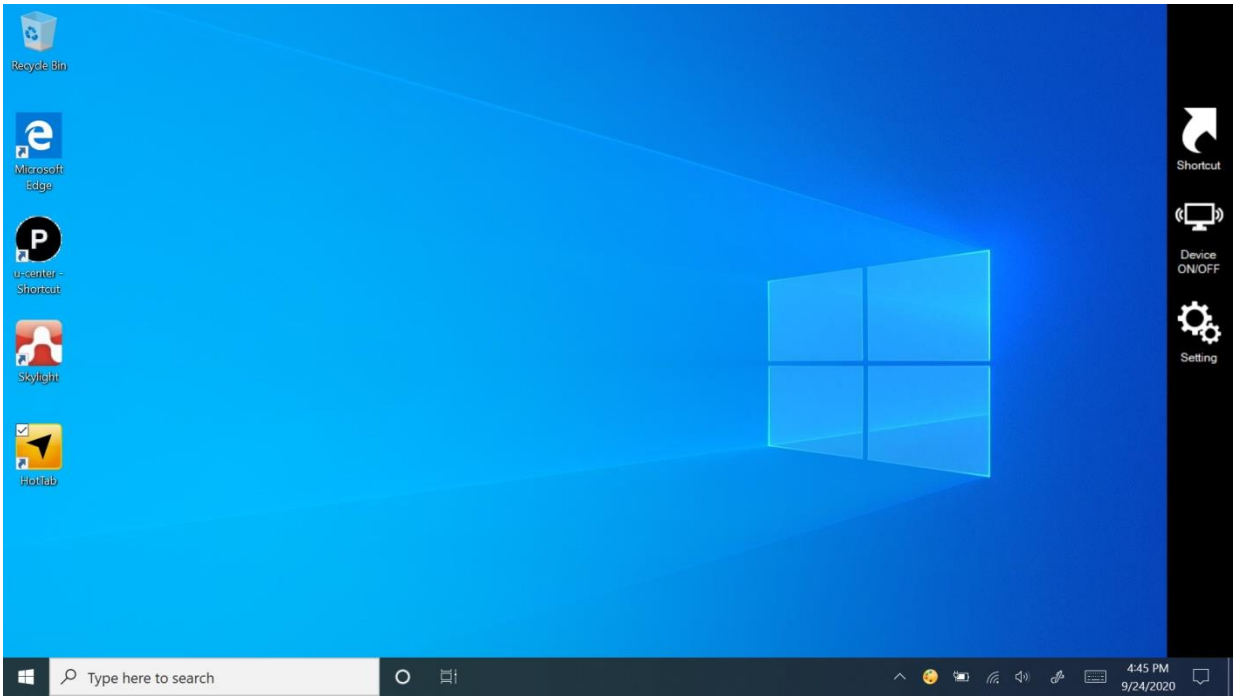
As operating system starts up, Hottab starts and runs in the background. To display the Hottab, press the (Menu) Button located on the front panel, or launching the Hottab application.

(Menu) Button on the Front Panel:



Hotyab Utility Icon:

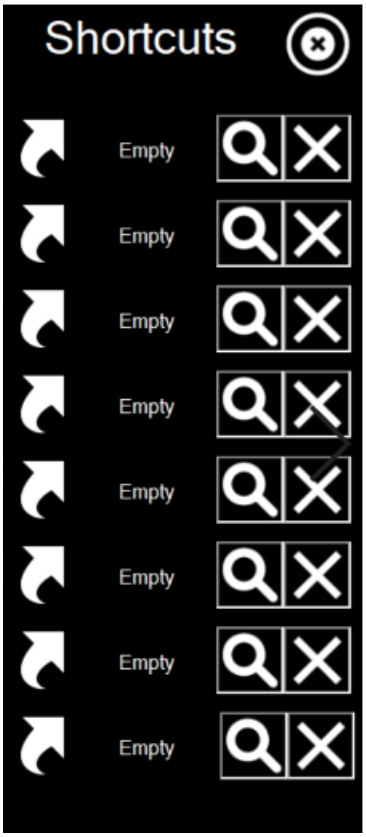
The main user interface is located on the top side of the screen. There are 4 main menu options: System Information, Function Buttons, Device Control, and Touch Mode. Operations and functions on each menu options are explained in detail in the user manual, please refer to the download center on our website to download the file.



Icon	Description
Shortcuts	Allows users to configure short cut to quickly access programs with a few tabs.
Device ON/OFF	Enables/disables tablet computer's hardware functions. The configurable functions are WLAN, WWAN (4G/LTE), GPS, Bluetooth, LED indicators, and GPS Antenna routing options.
Settings	Provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings.
Touch Set	Allows users to change touch mode settings: Hand/ Rain, Stylus, Glove.
Main	Shows main battery current status.
BackUp	Press On to show backup battery status. If your device doesn't have backup battery then you will see X icon next to main battery status.

5.2 Using Physical Function Keys (Hotkeys)

The function key mapping menu option allows user to change the physical function buttons, F1, F2 and F3. 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.

5.3 Changing Touch Mode

The M133TG Ultra Rugged Tablet supports three built-in operating modes, for users to choose under different usage scenarios, when any mode is chosen; the background of the icon will become green.

Mode	Description
Hand/Rain (Default)	In *Hand/Rain* mode the touchscreen rejects false inputs from liquid drops. When the liquid is removed, the touchscreen accepts touch inputs from bare fingertips. *Supports input by:* • *Rubber tip passive stylus* • *Bare fingertips*
Stylus	In *Stylus* mode, the touchscreen supports inputs from the fine-tip passive capacitive stylus (shipped with tablet). *Support input by:* • *Fine-tip passive stylus with palm rejection* • *Rubber tip passive stylus* • *Bare fingertips*
Glove	In *Glove* mode, the touchscreen supports inputs while the user is operating the touchscreen with gloves on. *Supports input by:* • *Glove* • *Rubber tip passive stylus* • *Bare fingertips*

Changing Touchscreen Mode in HotTab

1. Open HotTab utility by pressing **Menu** Button located on the front panel, or launch HotTab utility application.
2. Click on **Devices ON/ OFF.**
3. Click on **Touch Set** **.**
4. Select the desired touch modes by tapping on the button.
5. Now the touchscreen mode would behave as configured.

5.4 Using the Barcode Reader

The 2D/1D Barcode Reader is optional for M133TG Tablet PC and is not re-workable by the end user. To use this feature, please make sure the tablet PC is built-in barcode reader before use, or contact our sales contact window for more details.

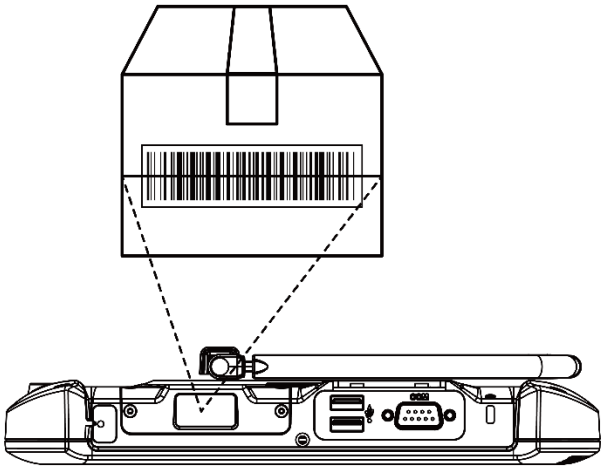
Note:
Download the SDK from Winmate Download center.
>> M133TG >> Development Kit or check the Driver CD which is shipped with the tablet.

To enable the Barcode Reader:

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

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

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



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

5.5 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 launch the HotTab Utility application.
2. Tap on the **Devices ON/ OFF** button.
3. Check the status color of the Wi-Fi icon:

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

4. If the WLAN feature is disabled (white), tap on the Wi-Fi icon to enable it (orange).
5. Click the wireless network connection status icon in the Windows notification area. A list of available wireless networks are 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.

5.6 Using the Wireless WAN

For tablets equipped with wireless WAN (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 launch the HotTab Utility application.
2. Tap on the **Devices ON/OFF** button.
3. Check the status color of the WWAN icon:

Item	Status Color	Description
WWAN 4G LTE	Orange	WWAN (4G LTE) is enabled.
	White	WWAN (4G LTE) 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.

5.7 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 launch the HotTab Utility application.
2. Tap on the **Devices ON/OFF** button.
3. Check the status color of the GPS icon:

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

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

5.8 Using the BT feature

To enable the wireless BT feature, perform the following procedure:

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

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

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

5.9 Using Hot-Swap Battery Function

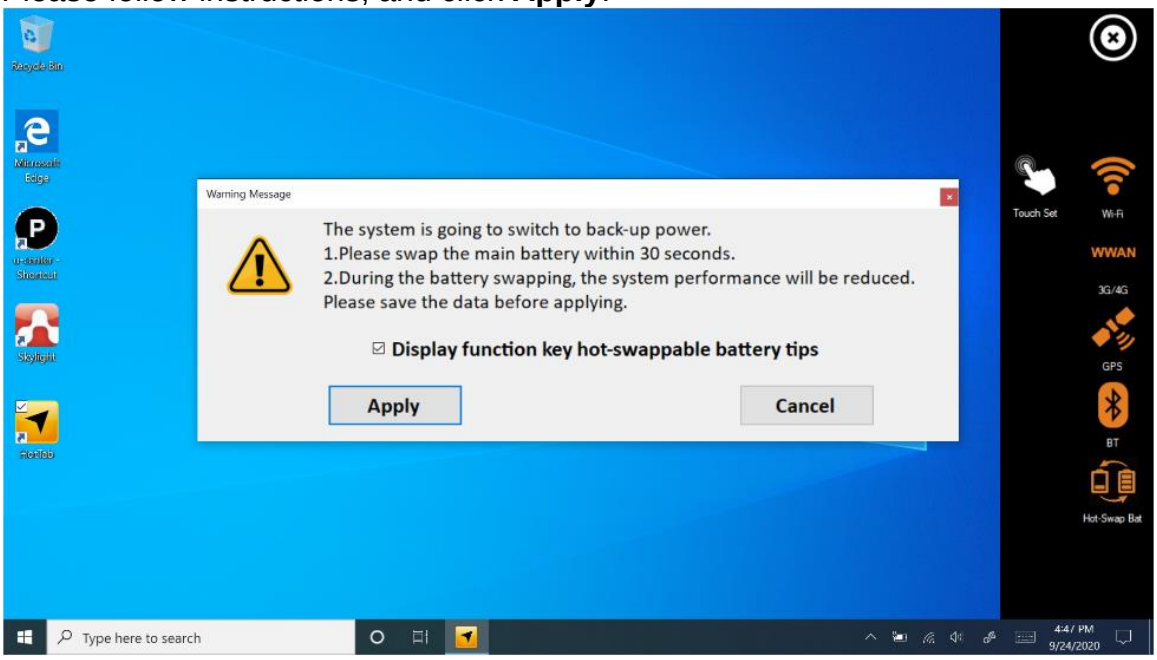
The M133TG Tablet Computer supports hot-swap of batteries, meaning that you may replace the main battery while tablet is running.

To do the battery hot-swap battery, perform the following procedure:

1. Open the HotTab utility by press the (Menu) Button located on the front panel, or launch the HotTab Utility application.
2. Tap on the **Devices ON /OFF** button.
3. Check the status color of the Hot-Swap Battery icon:

Item	Status Color	Description
Hot-Swap Bat	Orange	Hot-Swap Battery is enabled.
	White	Hot-Swap Battery is disabled.

4. If the Hot-Swap Battery feature is disabled (white), tap on the Hot-Swap Battery icon to enable it (orange). Now you can use the Hot-Swap Battery feature.
5. When the Hot-Swap Battery is enabled, you will see the Warning Message on the screen. Please follow instructions, and click **Apply**.



Chapter 6: Frequently Used Settings

6.1 Screen Resolution Scaling and Setting

The M133TG features a high resolution 1920 x 1080 display that 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 1080. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.

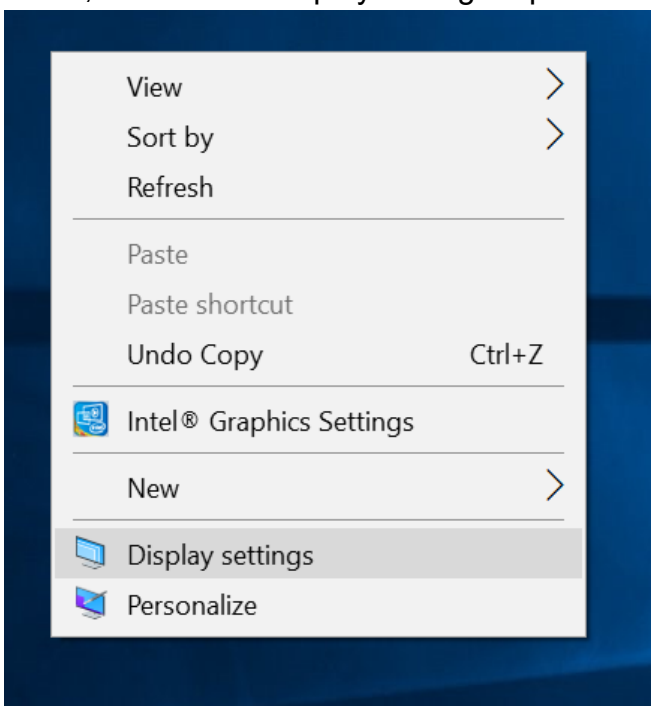
Note:

- 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.

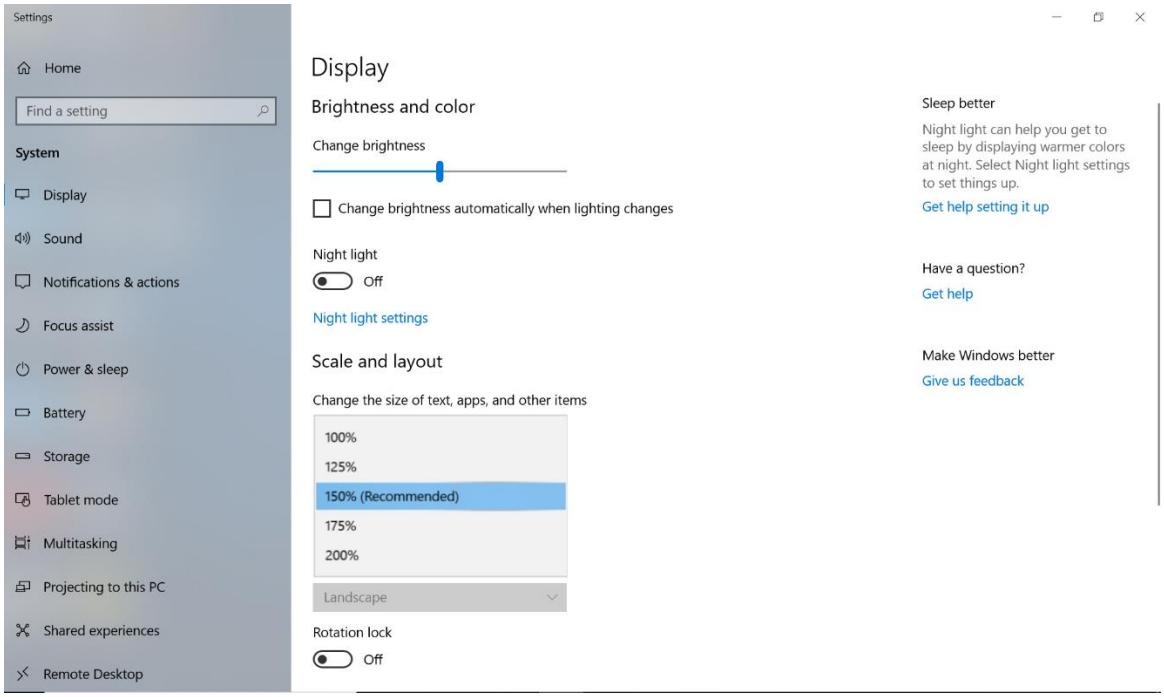
6.1.1 Changing Display Scaling (Recommended)

Perform the following to change display scaling setting:

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



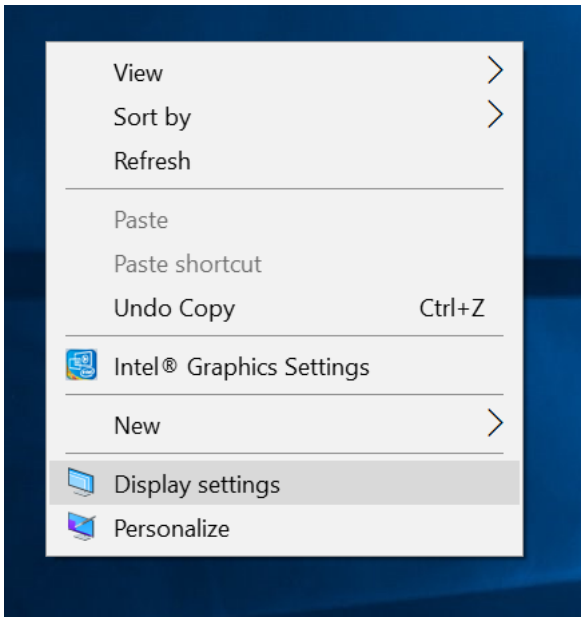
1. A “Display” Window will show up. Click on the dropdown option under the “**Scale and layout”** section and change the scaling option to “**150% (Recommended)**” or any other desired display scaling.



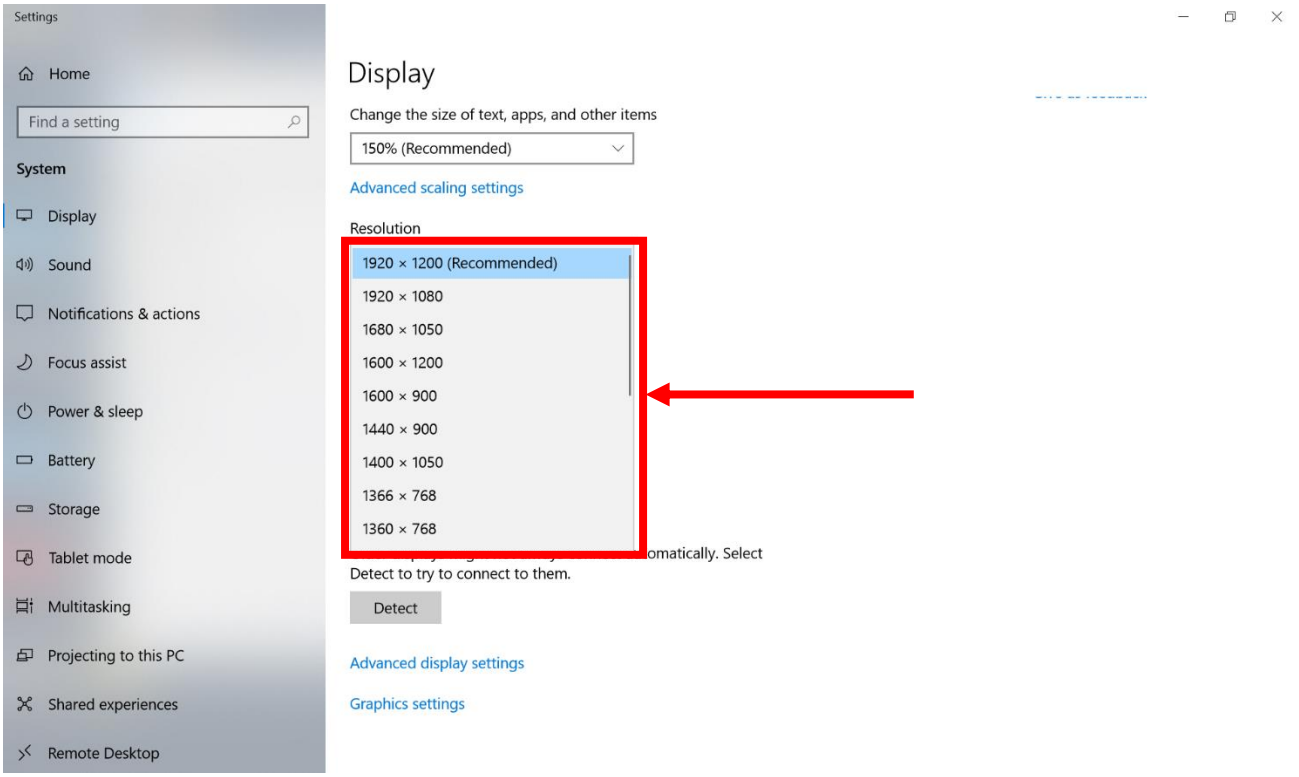
6.1.2 Changing Screen Resolution

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

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



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



3. Hit “**Apply**”. A 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.

6.2 Accessing the Device Information (HotTab Setting)

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 launch the HotTab Utility application.
2. Click on **Settings** button.
3. Below shows 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 and Model Name, shown in the picture sample.

Battery Information: This section provides user battery Information.

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

Backup (Optional): The backup battery used for battery hot-swap displays its state in text with the following meanings.

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.

You can turn on/ off the backup battery status.

Check for Update: Choose check for Update to search for the latest updates available for your device.

6.3 Using Recovery Wizard to Restore Computer

The M133TG Ultra Rugged Tablet has a dedicate recovery partition stored on the hard drive of the tablet to enable quick one-key recovery process. This partition occupies about 11 GB of the storage space, and comes built-in to each 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.

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

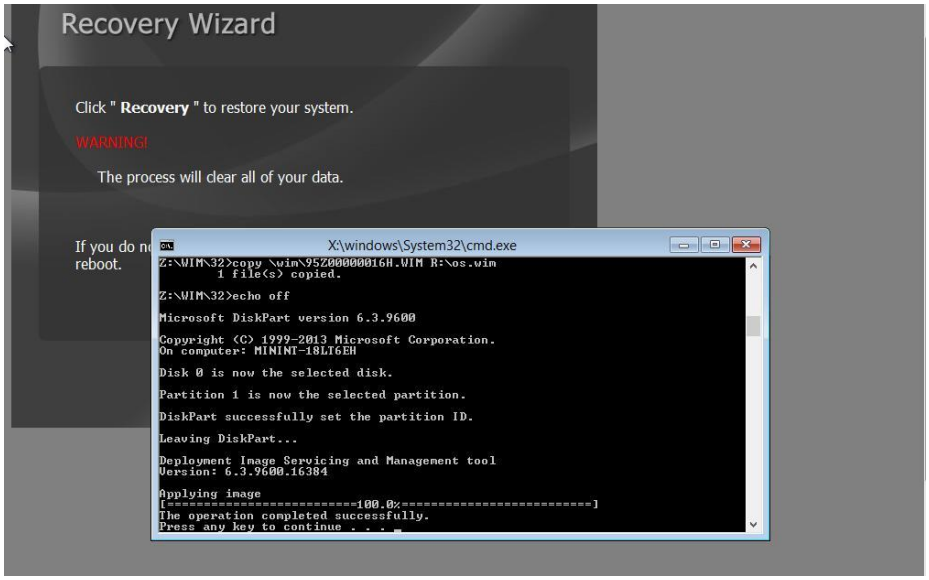
To enable quick one-key recovery procedure:

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

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

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 Shut down automatically.



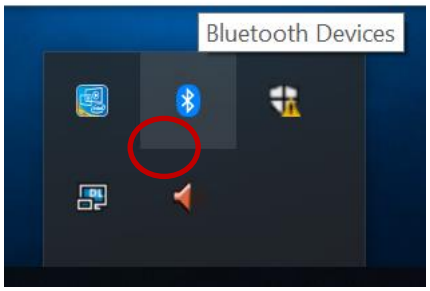
6.4 Pairing with a Wireless Bluetooth Barcode Scanner

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.

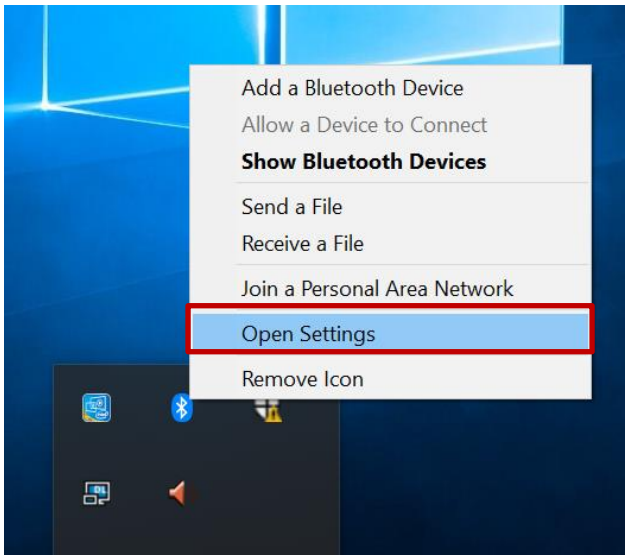
6.4.1 Setup Computer for Bluetooth Pairing

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

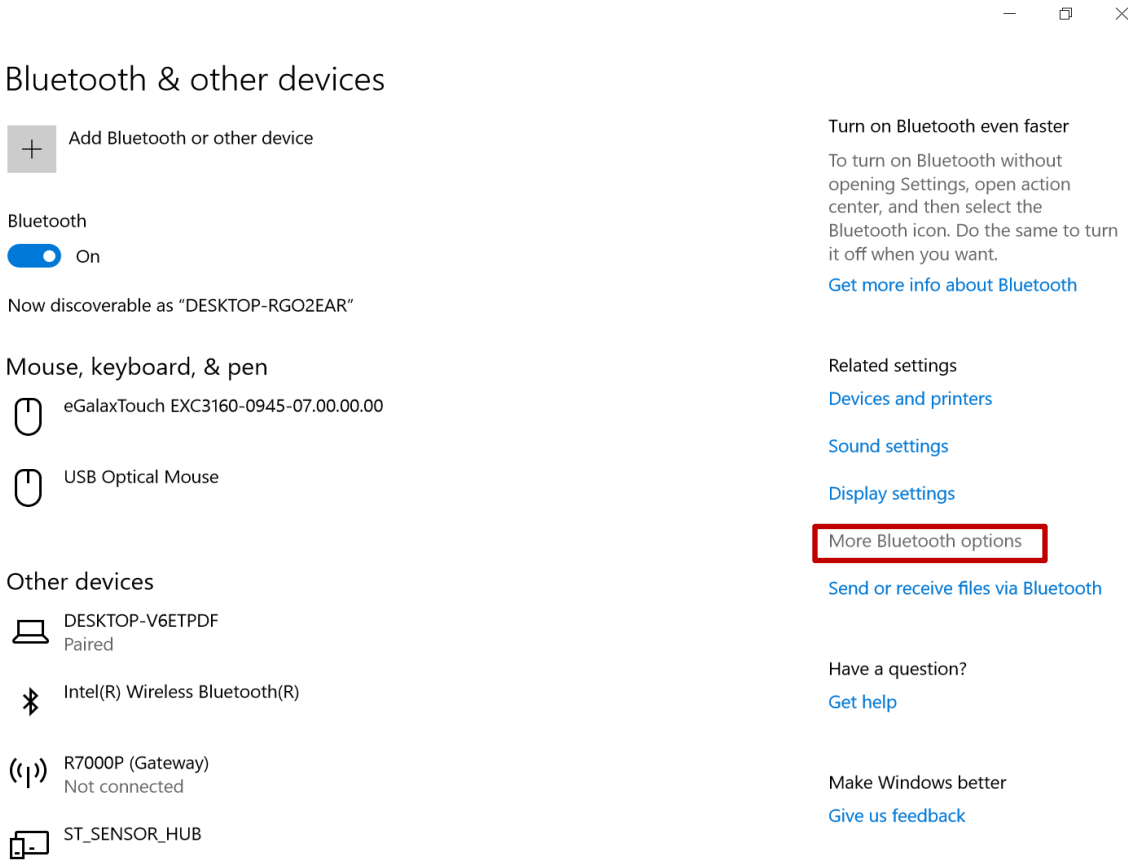
1. Locate the **Bluetooth** icon in the Notification Area



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**.

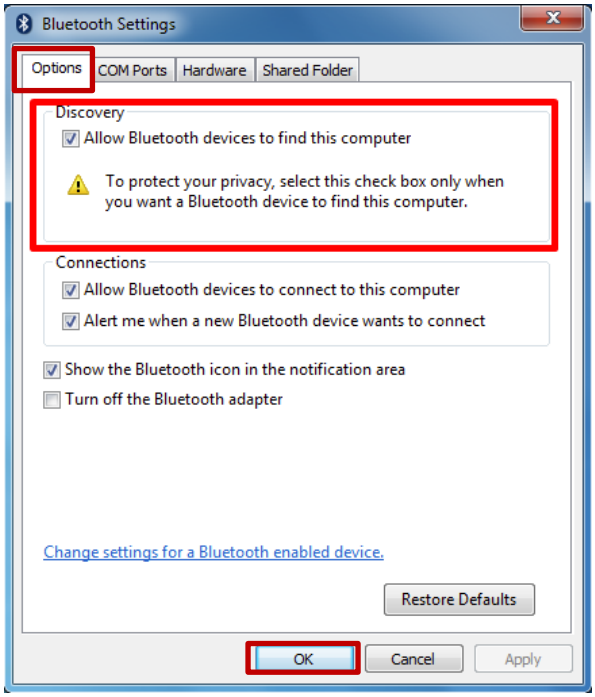


3. Once the **Bluetooth & other devices** Menu appears, click "**More Bluetooth options**" under Related settings section as shown below.



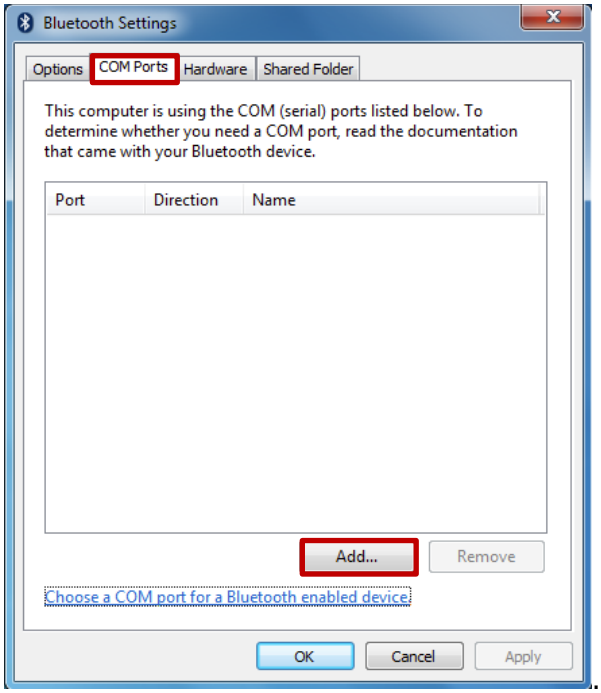
Click **OK** to continue.

4. 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:

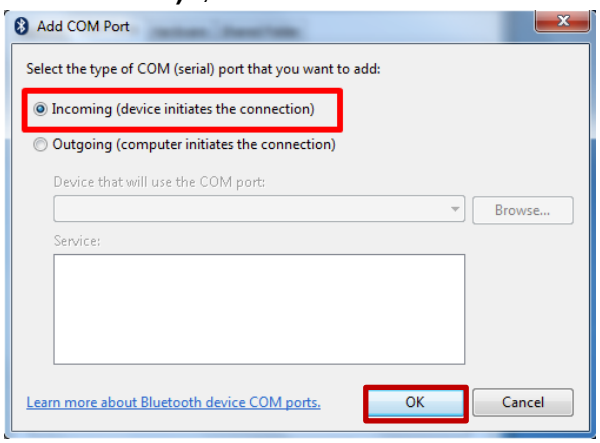


Click **OK** to continue.

5. 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.



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



2. The computer will automatically assign COM Port to the Bluetooth connection. Click **OK** to continue.

3. 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.

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

6.4.2 Set up the Barcode Scanner for Bluetooth Pairing

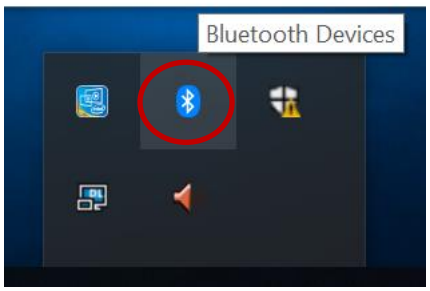
Now the Barcode Scanner is ready for pairing process to start.

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.

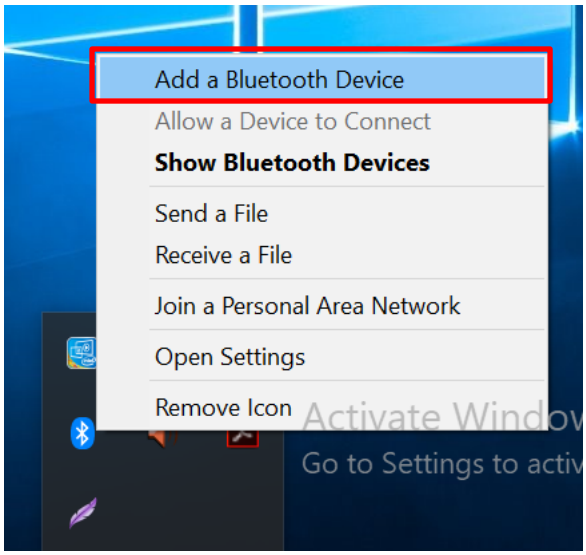
6.4.3 Perform Bluetooth Pairing

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

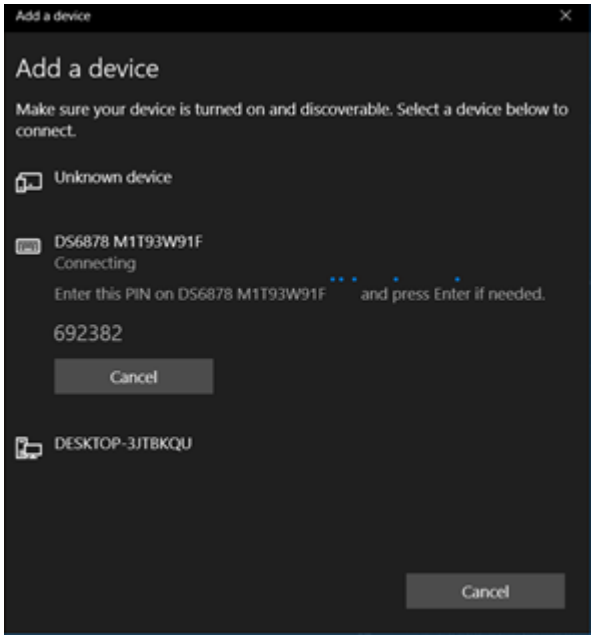
1. Open a program that is used for paring.
2. Perform scanning procedures. A Bluetooth notification window pop-up on the right hand side of the desktop. **Left click** on the mouse to enter Add a device menu.
3. Locate the **Bluetooth** icon in the Notification Area.



4. Click **Add Bluetooth Device**.

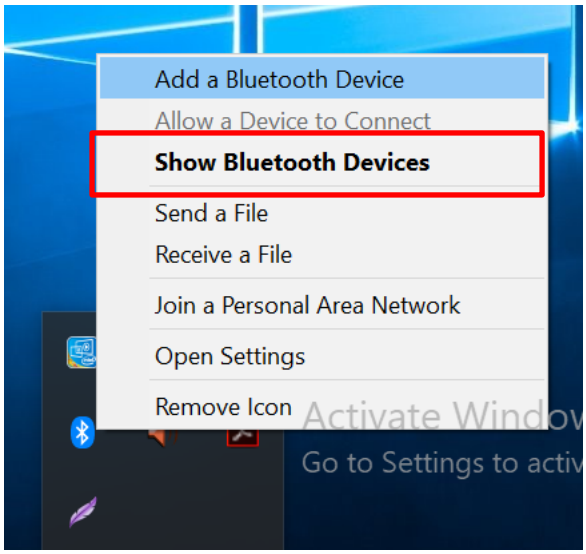


5. In **Add a Bluetooth Device** window, click **Next** to connect the Barcode Scanner to the Computer.



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

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



You can access this menu in the Control Panel:

Windows ➔Control Panel ➔ Devices and Printers➔ Bluetooth Devices

Make sure your device is connected to the Computer.

6.5 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. • 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 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 Bluetooth device.	• Make sure that both devices have Bluetooth powered on in HotTab. • 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 discoverable. • Make sure that both devices are compatible.
The GPS cannot find my location.	• Make sure your device supports GNSS function. • Make sure that GPS is powered on in HotTab. • Make sure that GPS receiver and the location sensor are enabled. • The tablet computer may be out of coverage area. Move your tablet computer outdoors or closer to a window. • Move the tablet 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.
I am having GPS accuracy issue	• When using the GPS, we recommend disabling the Barcode Reader in HotTab to reduce interference.

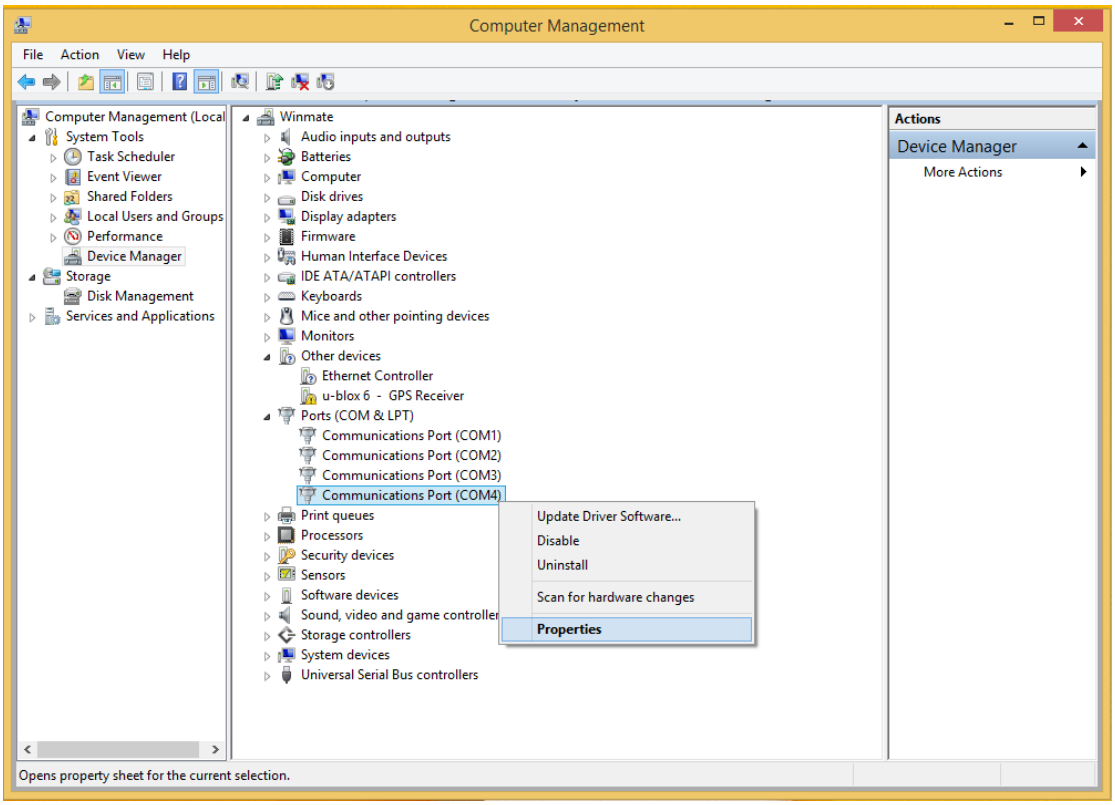
6.6 COM Port Definition

M133TG 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.

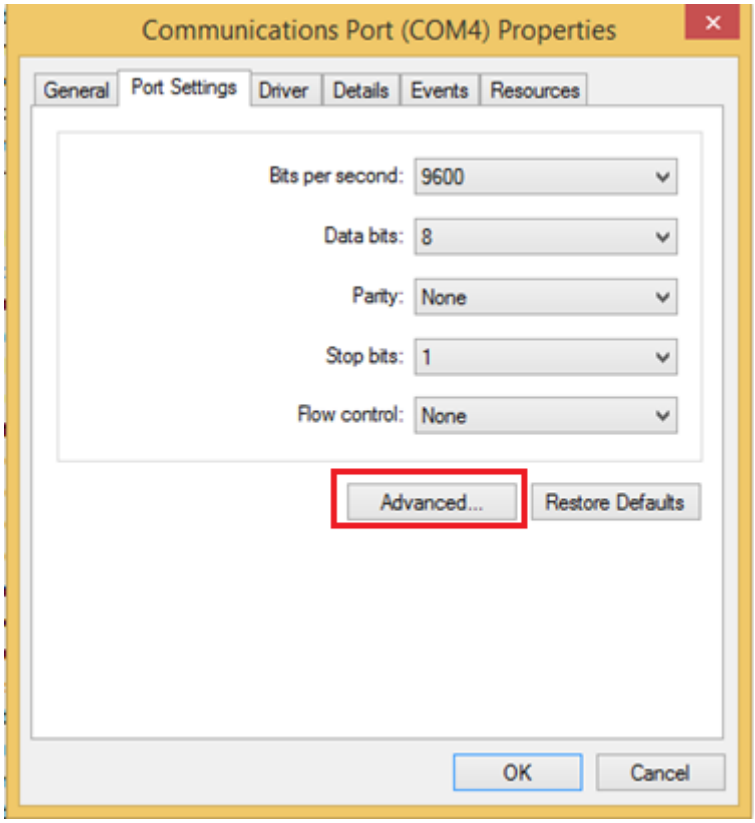
COM Port	Device
COM 1	RS232 at Vehicle Docking (optional)
COM 2	RS232 at Vehicle Docking (optional)
COM 4	Bluetooth Auto Pairing
COM 9	GPS (optional)

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:

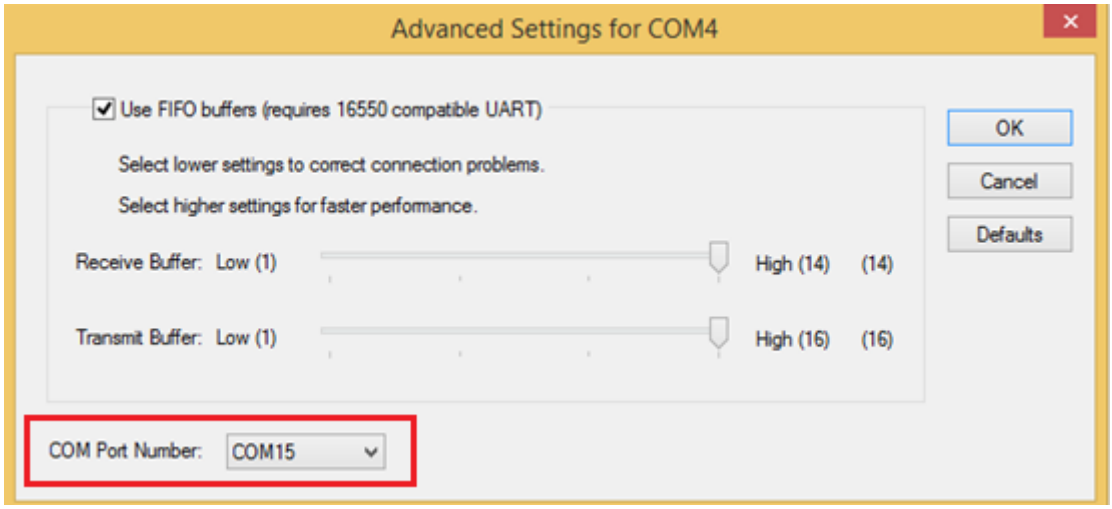
1. Go to "Device Manager", right click on the COM number need to be changed, and tap on "Properties" to open the setting page.



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.

Appendix

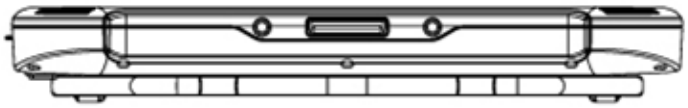
Appendix A: Hardware Specifications

Model Name	M133TG
Display Specifications	
Size	13.3-inch
Resolution	1920 x 1080
Brightness	500 nits with Optical Bonding
Touch	Multi-touch Projected Capacitive with Glove/Rain/Stylus Modes Support
Contrast Ratio	1000:1
Viewing Angle	89/89/89/89
Technology	• Anti-glare technology (Default) • Intel HD Graphics (built-in CPU) video controller
System Specifications	
Processor	Intel® Core i5-1135G7 2.40 GHz (turbo up to 4.20 GHz)
System Memory	4 GB DDR4 SDRAM (up to 32 GB)
Storage	1 x 128GB SSD micro SDXC card slot (up to 2TB)
Operating System	Windows 10 IoT Enterprise Windows 11 IoT Enterprise SAC (64 bit) (Optional)
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
WWAN	4G LTE (Optional)
Bluetooth	Bluetooth 5.0
GNSS	GPS/GLONASS
Interface	
USB Port	5 x USB 3.0 Type A, 1 x USB 3.0 Type-C
Serial Port	1 x RS232(DB9)
LAN	1 x RJ45-10/100/1000 Mbps LAN
SD Card Slot	1 x SDXC Slot
Indicator	4 x LED Indicator for Power, Battery, SSD, RF status
Docking Connector	1 x Docking connector
Power Input	1 x Power Jack (DC Input)
Keyboard and Input	
Touch	10-point multi-touch, support Hand / Gloves, Rain Mode, and Stylus Mode
Buttons	On-screen keyboard 7 membrane keys: 1 x power, 1 x menu, 3 x function key (Programmable function key)
Security Function	
Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
Mechanical and Environment	
Dimension (W x L x H)	338.2 x 239.8 x 33.8 mm
Housing	Rear Magnesium Alloy Die-Casting Design
Cooling System	Fanless thermal design
Weight	2.4 Kg (Without Kickstand), 2.5 Kg (With Kickstand)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	30% to 80% RH, non-condensing

Model Name	M133TG
IP Rating	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.
Power Management	
Power Rating	19 V DC
Battery	15.4V, typ. 5900 mAh Li-Polymer Battery (4S1P), Hot-Swap (Optional)
Battery Operating Time	More than 10 hours (BAPCo Tabl etMark v3)
Adapter	100-240V, 50-60Hz / 19V DC
Certifications	
Certifications	CE, FCC

Appendix B: Docking Connector Pin Definition

The M133TG Tablet Computer supports one docking connector located at the bottom side. The pin definition is listed as the following table.



Docking Connector			
Pin No.	**Description**	**Pin No.**	**Description**
1	DOCK_A_DET	26	MDI3_IN-_DK
2	AUGND	27	MDI3_IN+_DK
3	AZ_HP_L	28	GND
4	AZ_HP_R	29	MDI2_IN-_DK
5	LINE2_JD	30	MDI2_IN+_DK
6	EXT_AZ_MIC_L	31	GND
7	+V3.3S	32	MDI1_IN-_DK
8	NC	33	MDI1_IN+_DK
9	USB2_HDMI_DN	34	GND
10	USB2_HDMI_DP	35	MDI0_IN-_DK
11	NC	36	MDI0_IN+_DK
12	NC	37	GND
13	NC	38	MB_DOCK_DET#
14	NC	39	GND
15	NC	40	USB3_P3_DEV_TXN_R
16	NC	41	USB3_P3_DEV_TXP_R
17	NC	42	USB3_P3_DEV_RXN_R
18	NC	43	USB3_P3_DEV_RXP_R
19	NC	44	USB3_DOCK_DM
20	NC	45	USB3_DOCK_DP
21	NC	46	NC
22	NC	47	DOCK_B_DET
23	NC	48	NC
24	DOCK_PWR	49	DOCK_PWR
25	DOCK_PWR	50	DOCK_PWR

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