

Rugged Android Tablet Computer



Model No. M101M4
Series

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 mask 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.



NOTE

A note is used to emphasize helpful information.



IMPORTANT

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



**CAUTION/
ATTENTION**

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

Unalerted' attention indique un dommage possible à l'équipement et explique comment éviter le problem potentiel.



**WARNING!/
AVERTISSEMENT!**

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

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

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.



General Product Safety **Sécurité générale des produits**

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

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

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

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

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

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

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.



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 occurs.

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

Exposure to Radio Use

E500RM8 series is equipped with Bluetooth, Wi-Fi and Cellular modem radio. In some situations or areas, user may be required to turn off the radios. For example:

- User's needs to turn the phone OFF when in an area posted "**TURN OFF RADIO SIGNAL.**" to avoid interfering with blasting operations.
- User needs to turn OFF the radio signal in health care facilities. Hospitals or health care facilities may be using devices that sensitive to Radio Frequency energy.
- Aviation authority regulations prohibit user from using phone while in the aircraft.

In order to prevent the handheld from emitting radio signals, do the following steps:

- To turn off the device:
Press and hold the power button to display the Phone Options menu for 3 sec then tap the **POWER OFF**
- To set the device into airplane mode:
Press and hold the power button to display the Phone Options menu for 3 sec then tap **AIRPLANE MODE**
- To turn off the Communication options e.g. Bluetooth, Wi-Fi, cellular modem radio:

Select **MENU** , tap **SETTINGS**



, and then tap **WIRELESS & NETWORKS**.

If any radios are on, tap them to uncheck all the radios' checkboxes in the devices.

RF Exposure Information

This PDA meets the government's requirement for exposure to radio waves. This PDA is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6W/Kg. Test for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

Although SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the PDA is designed to operate at multiple power levels so as to use only the power required to reach the network.

In general, the closer user to a wireless base station antenna, the lower the power output. For body worn operation, this PDA has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions of the handset minimum of 1.5 cm from the body. User of other enhancements may not ensure compliance with FCC RF exposure guidelines. If user do not use a body-worn accessory and are not holding the PDA at the ear, position the handset a minimum of 1.5 cm from your body when the device is switched on.

Electrostatic Discharge



CAUTION

Please follow proper electrostatic discharge precaution to prevent static damage that can harm electronic components inside your device.

Driving



Using mobile device or accessories while driving may cause distraction and can be illegal in some areas where you drive. Please obey the laws and regulations on the use of mobile device

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.

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) Radio and Telecommunication Terminal Equipment (R&TTE) Directive (2014/53/EU)
USA 		FCC Part 15 Subpart B Regulations Class B
CANADA 	ICES-003	ICES-003 — Information Technology Equipment (Including Digital Apparatus)

EC Declaration of Conformity



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

Electromagnetic Compatibility Directive (2014/30/EU)

- EN55024: 2010 EN 55022: 2010 Class B
- EN55032

Low Voltage Directive (2014/35/EU)

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

Radio and Telecommunication Terminal Equipment (R&TTE) Directive (2014/53/EU):

- EN 300 328
- EN 301 489-1/-3/-17/-24
- EN 301 908-1/-2
- EN 300 440-2
- EN 50566

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 his own expense.

- FCC Part 15 Subpart B Regulations Class B
- FCC Part 15 Subpart C
- FCC Part 22 Subpart H
- FCC Part 27 Subpart B

CANADA

- ICES-003 / RSS-130 / RSS-133 / RSS-139 / RSS-247 / RSS-310 / RSS-102

Contents

PREFACE	I
READ ME FIRST	III
SAFETY INFORMATION.....	III
EXPOSURE TO RADIO USE.....	VI
RF EXPOSURE INFORMATION.....	VI
ELECTROSTATIC DISCHARGE.....	VII
DRIVING.....	VII
HANDLING AND MAINTENANCE.....	VII
ABOUT THIS USER GUIDE	1
CHAPTER 1 GETTING STARTED	2
INTRODUCTION.....	2
PRODUCT FEATURES.....	2
UNPACKING.....	3
DESCRIPTION OF PARTS.....	4
FIRST TIME OPERATION.....	6
<i>Inserting SIM Card</i>	6
<i>Battery Installation</i>	6
<i>Connecting to Power Supply</i>	7
TURNING ON AND OFF THE DEVICE.....	8
<i>Turning On</i>	8
<i>Turning Off</i>	8
RESETTING TO FACTORY DEFAULTS.....	9
CHAPTER 2 USING THE M101M4	10
USING THE TOUCH SCREEN.....	10
WAKING UP THE TABLET.....	11
USING THE HOME SCREEN.....	12
<i>Personalizing Home Screen</i>	12
<i>Viewing other parts of the Home Screen</i>	14
STATUS AND NOTIFICATION ICONS.....	14
<i>Status Icons</i>	14
<i>Notification Icons</i>	15
USING THE ON-SCREEN KEYBOARD.....	15
<i>Entering Text</i>	15
<i>Editing Text</i>	16
DISPLAY SETTINGS.....	18
AUDIO PROFILE SETTINGS.....	19
<i>Sounds Settings</i>	19
<i>Adjusting Volume</i>	19
LANGUAGE AND KEYBOARD SETTINGS.....	20
<i>Changing the Keyboard Language</i>	20
USB DEBUGGING SETTING.....	21
ABOUT PHONE.....	21
CHAPTER 3 USING WINMATE HOME MANAGER (WHM)	22
HOW TO LOCK APPLICATIONS.....	22
HOW TO UNLOCK APPLICATIONS.....	25
CHAPTER 4 CONNECTING TO NETWORK AND DEVICES	27
CONNECTING TO MOBILE NETWORKS.....	27
<i>Checking the Network (3G/4G/LTE) Connection</i>	27

Turning on Data Service	27
CONNECTING TO WI-FI NETWORKS.....	28
Turning ON the Wi-Fi and Connecting to Wi-Fi networks.....	28
Adding Wi-Fi Network	29
CONNECTING TO BLUETOOTH DEVICES.....	29
Turning Bluetooth ON or OFF.....	29
Connecting to Bluetooth Device.....	30
Disconnecting Bluetooth Device	30
CONNECTING TO COMPUTER VIA USB	31
USB Computer Connection.....	31
CHAPTER 5 USING CAMERA	32
CAPTURING PHOTOS OR VIDEO	32
Opening Camera.....	32
Taking pictures.....	32
Switching between front and rear cameras.....	33
Viewing pictures	33
Shooting videos.....	33
Opening the Gallery	34
CHAPTER 6 CAPTURING DATA.....	35
USING BARCODE READER	35
Location.....	35
Android Winmate Data Collection (WDC).....	35
Where To Find WDC.....	35
How to Turn On/Off the Power of Barcode Reader	36
How to Change the Symbologies of Barcode	37
How to Add a Command to My Output of the Barcode.....	37
How to Change the Scan Type of the Barcode Reader.....	38
How to Change the WDC Settings or Reset the Setting Back to Default	38
Scanning the Barcode.....	39
Scanning Tips and Considerations	40
CHAPTER 7 ACCESSORIES	41
STANDARD ACCESSORIES	41
OPTIONAL ACCESSORIES	41
APPENDIX A: PRODUCT SPECIFICATIONS	43
APPENDIX B: ORDERING INFORMATION.....	45
APPENDIX C: DOCKING CONNECTOR	46
APPENDIX D: SOFTWARE DEVELOPMENT KIT.....	47

About This User Guide

This User Guide provides information about using the Winmate® M101M4 and accessories.



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

Documentation Set

The documentation set for the M101M4 provides information for specific user needs, and includes:

- **M101M4 Series Quick Start Guide** - describes how to get the M101M4 up and running.
- **M101M4 Series User Guide** – contains detailed description on how to use the M101M4, its components and features.

Configurations

This guide covers the following configurations of M101M4 Series:

Model Number	Specifications
M101M4	Standard
M101M4-BM	1D/2D Barcode Reader

Chapter Descriptions

[Chapter 1, Getting Started](#) provides basic instructions on how to use M101M4, including main SIM card, SD card and battery installation, powering on and resetting M101M4.

[Chapter 2, Using the M101M4](#) provides basic instructions on using the M101M4.

[Chapter 3, Using Winmate Home Manager](#) explains how to use WHM to lock the launcher.

[Chapter 4, Connecting to Network and Devices](#) explains how to connect M101M4 to networks, Bluetooth devices, and computer.

[Chapter 5, Using Camera](#) provides instructions on how to use camera on M101M4.

[Chapter 6, Capturing Data](#) provides information on how to use Barcode Reader that might be present in M101M4.

[Chapter 7, Accessories](#) describes the available accessories and how to use them with the M101M4.

Chapter 1 Getting Started

This chapter tells you information about Winmate® M101M4 Rugged Android Tablet PC, its highlighted features, and provides basic instructions for using the M101M4, including powering on and resetting the M101M4.

Introduction

Thank you for purchasing Winmate® M101M4 Series Rugged Android Tablet PC. Winmate® M101M4 is an enterprise-class tablet with Android 4.2 inside.

The M101M4 packs WLAN, Bluetooth, GPS, and WWAN function—all into a single device. With great multiple wireless communicate design, this product will be applicable to mobile worker, business application, and IT requirements.

Product Features

Wimate® M101M4 Rugged Android Tablet features:

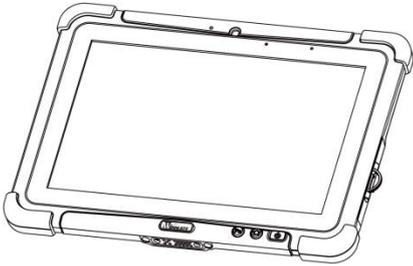
- 10.1" 1280x800 LED Panel with P-Cap Touch
- High performance ARM® Cortex™- A7 Quad Core 1.5GHz
- Android 4.2 Operating System
- IP65 water and dust proof
- Dual Camera Design: 8MP Main camera with LED flash / 2MP Webcam
- MIL-STD-810G Shock / Drop / Vibration
- With Optical Bonding
- Support NFC
- Optional Built-in Motorola SE4500 2D Barcode Reader

Unpacking

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

Standard packing list includes:

- Tablet Computer



- Standard Battery



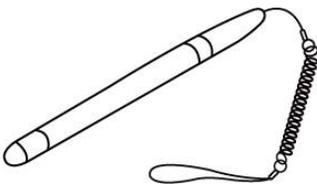
- Power Adapter



- Power Cord and Plugs



- Capacitive Touch Stylus



- Driver CD & User Manual



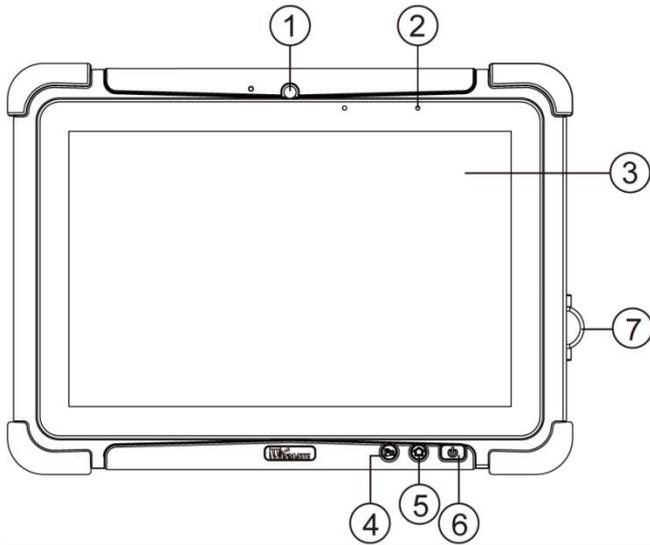
** Adapter socket varies by country and region. M101M4 will be shipped with the socket according to your order.*

Your package may include optional accessories based on your order. To see the list of available accessories and its specifications, refer to [Chapter 7](#) of this User Guide.

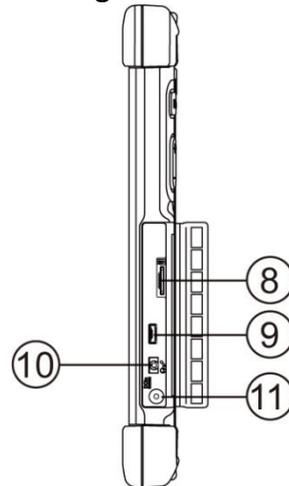
Inspect the equipment for damage. If any equipment is missing or damaged, contact us.

Description of Parts

Front:



Right:



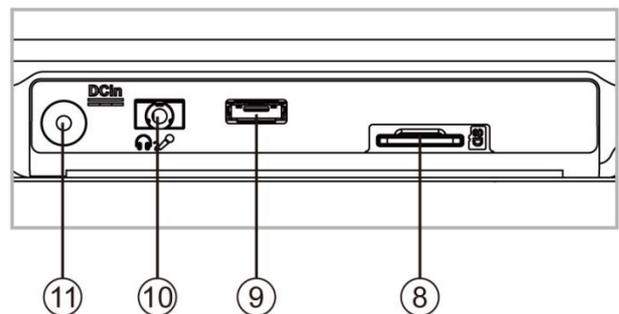
No	Item	Description
1	Front Camera	2 Megapixel Webcam
2	Power LED Indicator: ○ ⏻	Show the current power status of the Tablet Computer
3	Touch Screen	Display and act as one of the inputs for the Tablet Computer
4	Back Button	Goes back to previous screen
5	Home Button	Opens Android home screen
6	Power Button	Power on/off tablet
7	I/O Cover	Protect I/O ports

No	Item	Description
8	Micro SD Card Reader	Memory card reader port for MicroSD Card
9	Micro USB OTG	High speed USB port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc.
10	Mic In/ Line Out	Headset or headphone can be connected (Mic is only supported with 3.5mm 4-pin headset)
11	Power Jack	DC-IN power input jack

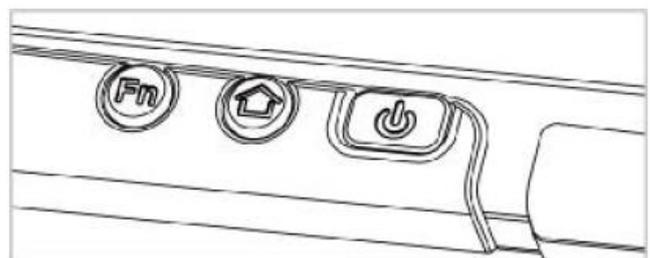
Front LED Indicator Details:



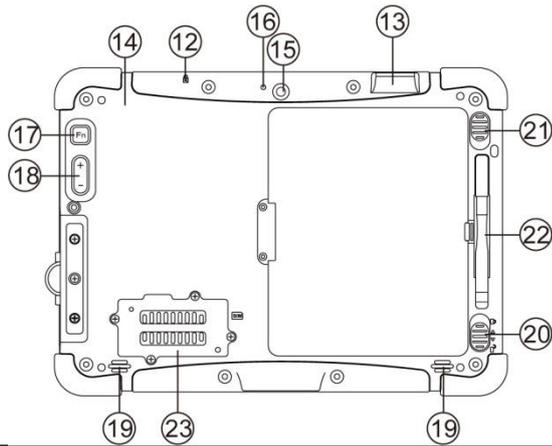
Side I/O Details:



Front Button Details:

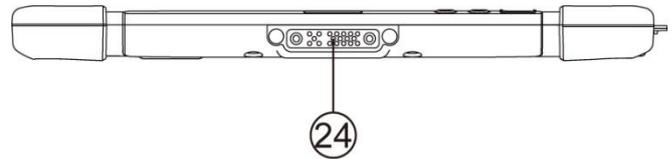


Rear:



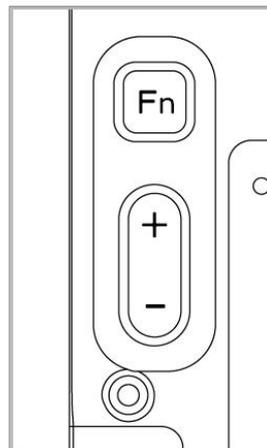
No	Item	Description
12	Kensington Lock	Provide lock access for Kensington Lock.
13	Optional Barcode	Barcode Scanner for reading of 1D/2D barcode.
14	Optional NFC	NFC reader for reading of NFC tags.
15	Rear Camera	8MP Autofocus Camera. Captures photos and videos.
16	Camera Flash	LED camera flash to provide flash lighting when use with camera.
17	Menu Button	Opens the menu
18	Volume Buttons	Volume Control. (+) Raise volume, (-) Lower volume.
19	Speakers	Emits sounds.

Bottom:

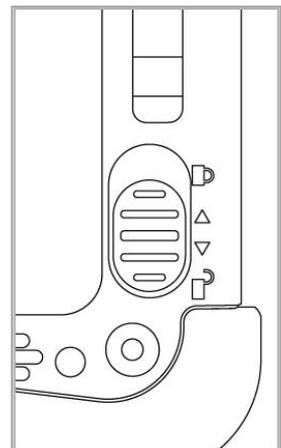


No	Item	Description
20	Battery Release Slider	Spring-loaded slider that latches the battery in.
21	Battery Lock Latch	Latch to lock the battery in place once battery is Inserted. Not spring-loaded.
22	Touch Pen Slot	Pen holder slot to store touch pen
23	3G Module/SIM card slot	Service window to insert Micro SIM card. Also provide access to 3G Module.
24	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna

Rear Buttons Details:



Battery Lock Latch Details:



First Time Operation

To start using the M101M4 for the first time:

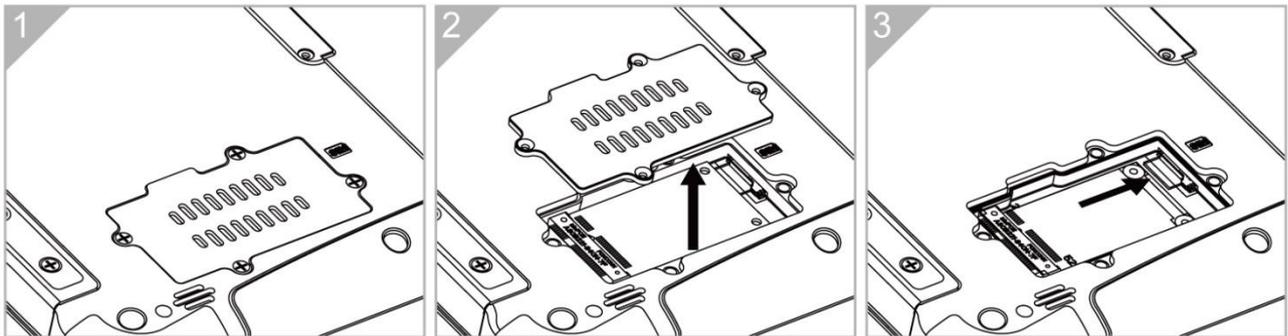
- Insert SIM Card (For 3G)
- Install the Battery
- Charge the M101M4
- Power on the M101M4
- Configure the M101M4

Inserting SIM Card

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

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

1. Remove the service window in the rear by unscrewing the four screws.
2. Insert the 3G SIM card into the slot located near the right side of the service window.
3. Reposition the removed service window screw to secure the service window.

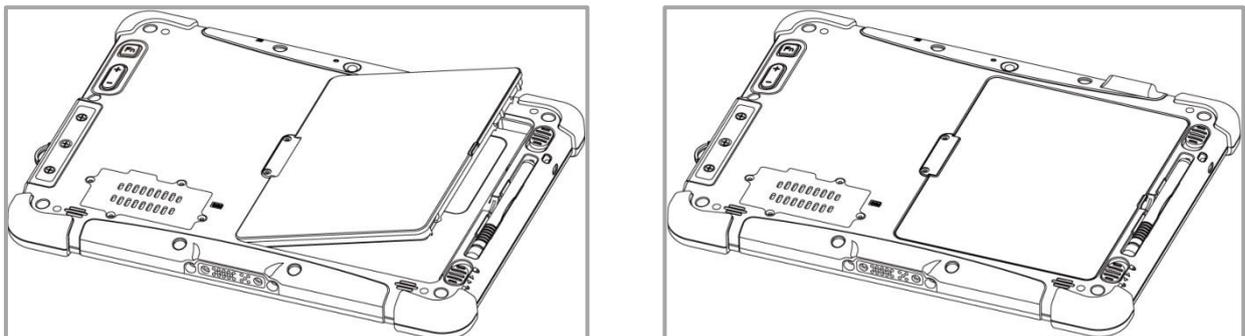


Battery Installation

Inserting Battery Pack

To insert the standard battery pack into the Tablet Computer:

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



Removing the Battery Pack

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

Connecting to Power Supply

The Tablet Computer operates either on external AC power or 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.

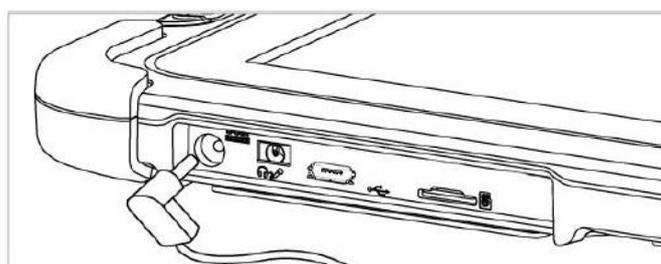
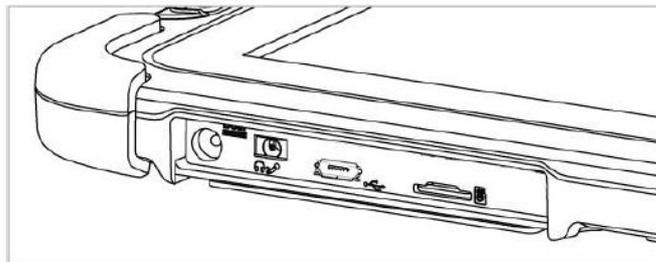


IMPORTANT

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.

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 in the Description of Parts.

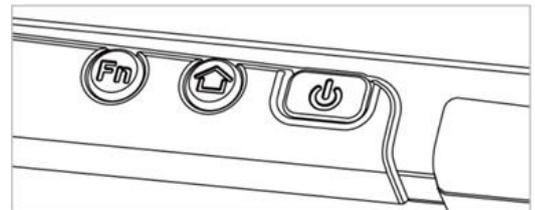
Item	Hours
Battery Life	10 Hours
Battery Charging hours	2.5 Hours

Turning On and Off the Device

This section describes how to turn on/ off the device.

Turning On

1. Place the device on a flat and stable surface or firmly hold it.
2. Make sure the device is either connected to AC power or to the battery pack with power
3. Press and hold the power button for 3 seconds, located on the top part of the unit



NOTE

- Do not press the power switch repeatedly.
- Do not perform the following operations until the hard drive indicator turns off
 - Connecting or disconnecting the AC adapter
 - Pressing the power switch
 - Touching the tablet buttons, screen, or external keyboard/mouse

Turning Off

Perform the following procedure to shut down the Tablet Computer:

1. Make sure you have closed any programs that are open on the Desktop.
2. To turn off the device, press and hold the power button until the phone options menu appears, tap the **Power off**.
3. User can also use the Phone options menu to put the device into silent or airplane mode, see features table.
4. Wait for Tablet Computer to power off.



NOTE

- The computer will forcefully be turned off if the power switch is pressed and held for six seconds or longer.

Resetting to Factory Defaults

To reset the device to factory defaults:

1. Tap **Menu**  , than tap **Settings**  .
2. In the **Personal** tab, tap **Backup & Reset**.
3. User can select to back up application data, Wi-Fi passwords and other settings to Google servers by tapping **Backup My Data**.
4. Tap **Factory Data Reset** to reset the phone.
5. Read all the available information and then check Erase phone storage if user wants to erase all the data on the phone storage such as music or photo

Chapter 2 Using the M101M4

This chapter explains how to use the buttons, status cons, and controls on M101M4 Rugged Tablet PC running on Android 4.2 Operating System, provides instructions on entering and capturing data.

Using the Touch Screen

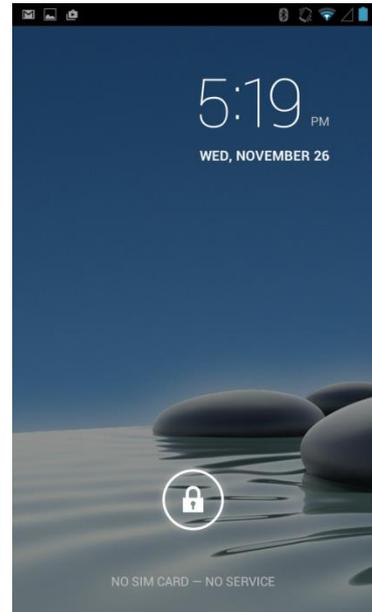
The touchpad supports the core gestures for Android.

Gesture	Action	Description
Tap		To select or activate something
Tap & Hold		Touch and hold an item on the screen by touching it and not lifting your finger until it respond
Touch, Hold & Drag		Touch and hold an item for a moment and then without lifting your finger, move your finger on the screen until you reach the target position. i.e. moving the apps around the home screen
Swipe or slide		Quickly move the finger across the surface of the screen. i.e. slide a lock screen to open the lock
Double-tap		Tap quickly twice on a webpage, screen, or App to zoom
Scale		Place two finger on the screen and pinching them together
Rotate		Two-finger press, simultaneously orbit both fingers around the center point, lift.

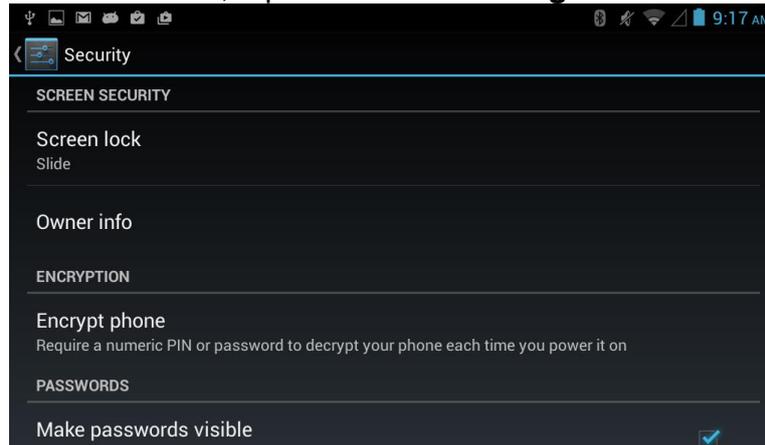
Waking Up the Tablet

If you do not use the tablet for a while, the screen dims and then darkens to conserve the battery. To wake up the tablet:

1. Press the **Power** button on the top of the Tablet PC
2. Drag the lock icon to the right

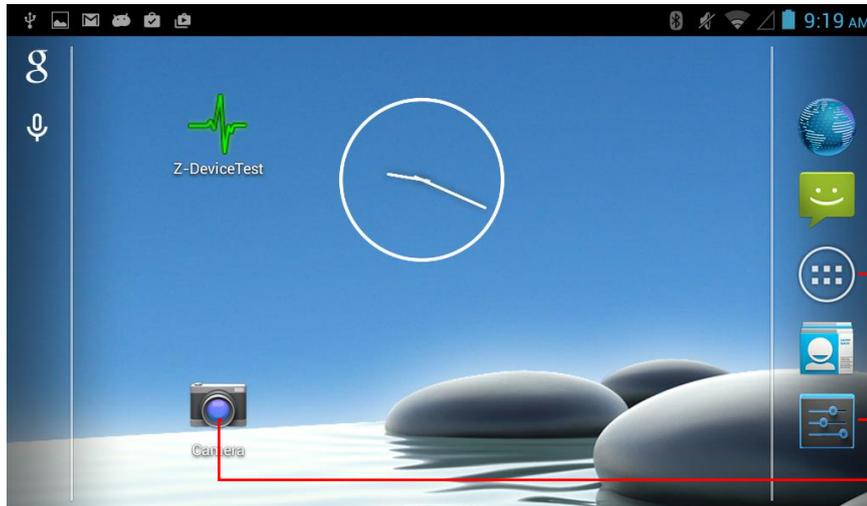


3. There are several options to choose the screen lock method such as Slide, Voice Lock, Pattern, PIN or Password
4. To select the screen lock method, tap  select **Settings** and then select **Security**



Using the Home Screen

Home screen is the starting point to access all the features on your Tablet PC. It displays application icons, widgets, shortcuts, and other features. User can personalize the home screen. See "[Personalizing home screen](#)"



● Status Bar shows the time, signal strength, battery status, and other information. It also display notification icons

● Launcher icon to open the launcher and view all applications

● Settings

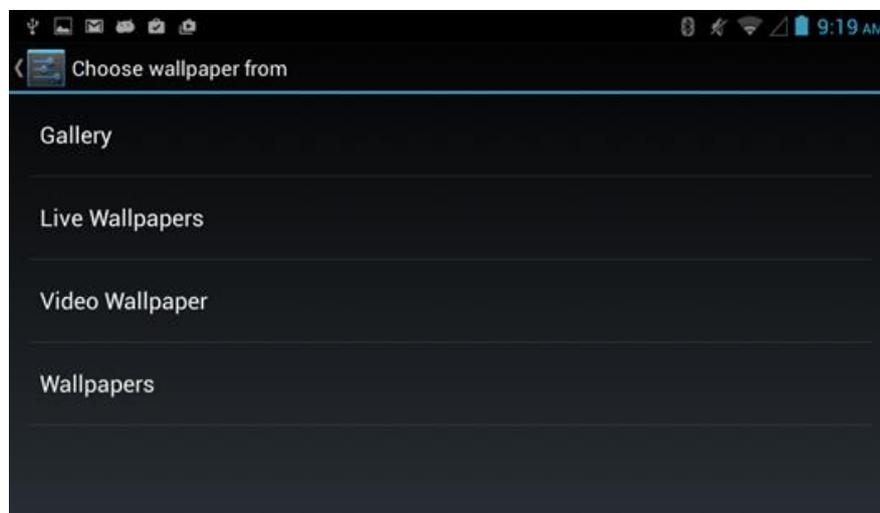
● APPS which is applications that user can use directly on the Home screen

Personalizing Home Screen

User can add application icons, shortcuts, widgets, and other items to any part of any Home screen where there is free space. User can also switch the wallpaper.

To change wallpaper on the HOME SCREEN:

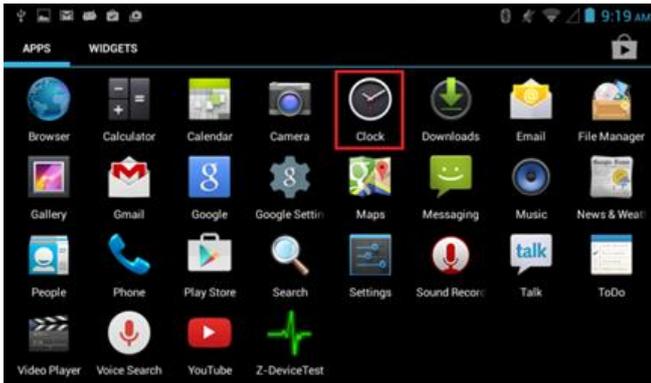
1. Tap **MENU** , and then open **Settings** .
2. In the Wallpaper menu tap the type of item you want to add.



To move an item on the Home screen:

1. Tap and hold the item you want to move, until it can be moved.
2. Drag it to a new location on the screen.

3. Place the item where you want to put it and lift your finger.



To remove an item on the Home screen:

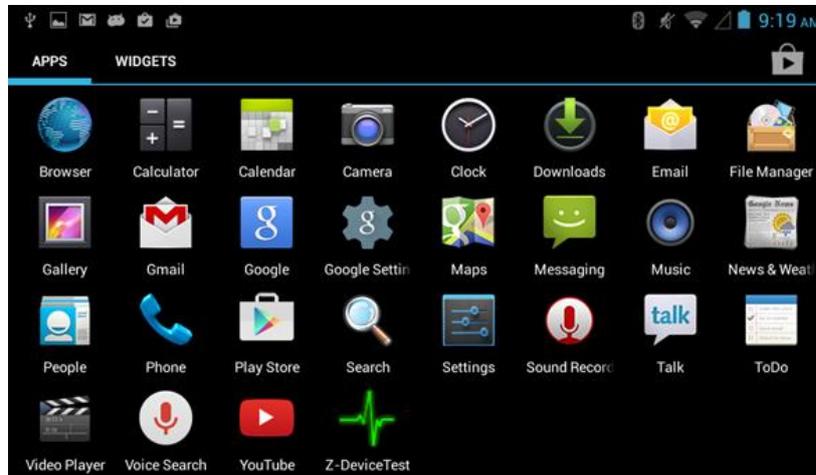
1. Tap and hold the item you want to remove. The launcher icon will change into a Remove icon
2. Drag the item you want to remove to the Remove icon on the top of the screen.
3. When the icon turns red, release your finger.



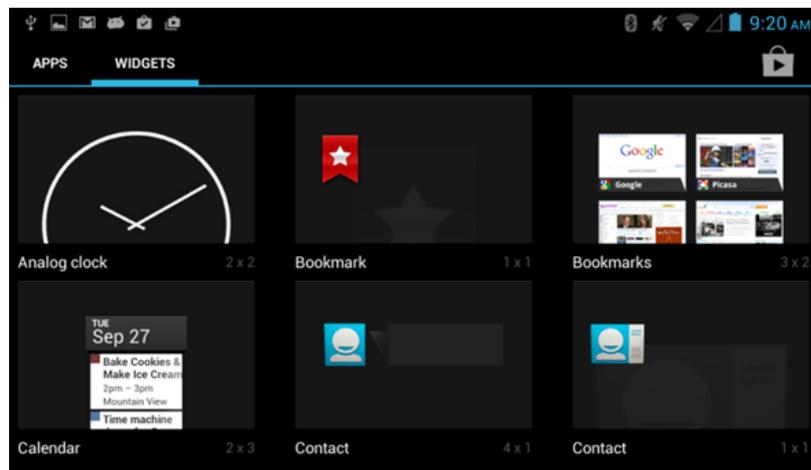
Viewing other parts of the Home Screen

- Slide your finger left or right across the Home screen.
Extensions to the Home screen provide extra space for APPS, shortcuts, and other items.
- Tap the launcher icon  (on the upper right) to view the entire APPS and Widgets of the device.

APPS



Widgets



Status and Notification Icons

The status bar appears at the top of every screen. On the left are notification icons and on the right are status icons, along with the current time.



Status Icons

The following icons indicate the status of your Tablet PC, for example if users are connected to a Wi-Fi network that is not connected to the internet, the network icons are appears in white color.

User can view the details by touching the clock at the bottom right of the screen. Status icons that appear in the status bar are as follows:

	Connected to GPRS mobile network		Bluetooth is on
	Connected to 1xRTT mobile network		Connected to a Bluetooth device
	Connected to EDGE mobile network		No SIM card installed
	Connected to 3G mobile network		Vibrate mode
	Connected to 4G mobile network		Ringer is silenced
	Mobile network signal strength		Battery is very low
	Searching for a network signal		Battery is low
	No signal		Battery is partially drained
	Connected to a Wi-Fi network		Battery is full
	Roaming		Battery is charging
	Airplane mode		Receiving location data from GPS

Notification Icons

The following icons indicate that you have received notification:

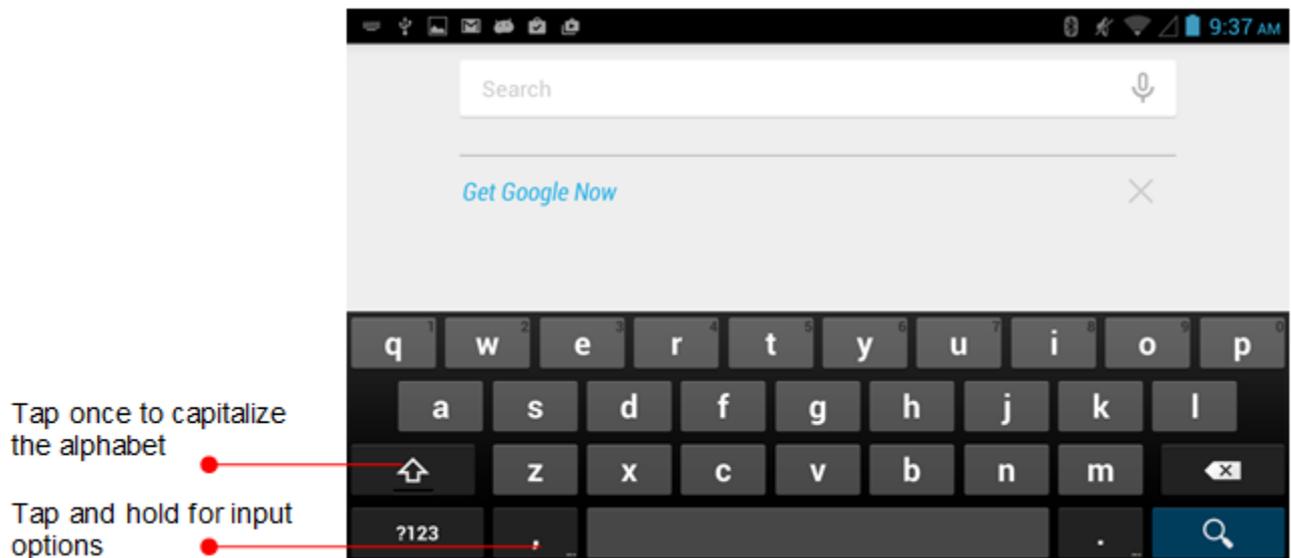
	New email message		Incoming call
	New text or multimedia message		Missed call
	Alarm is set		Speakerphone is activated
	Upcoming event		Phone microphone is muted
	Data is syncing		Downloading data
	Problem with sign-in or sync		Phone is connected via USB cable
	A screenshot is captured		

Using the On-Screen Keyboard

User will be able to enter text using the On-Screen Keyboard. Some applications will launch the keyboard automatically. In others, user needs to touch a text field where user wants to enter text to launch the keyboard.

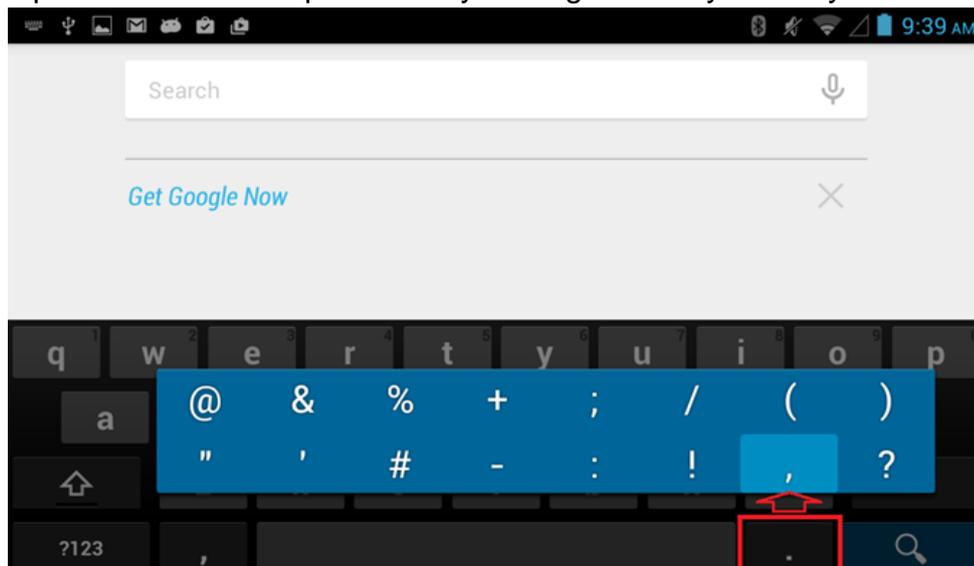
Entering Text

1. Open a text field, in this example we used Chrome to create a text, The On-Screen Keyboard opens.



*If user taps in a text field which already contains text, the insertion point is set where user tap and the cursor appears. User can drag the cursor to pick exactly where you want to add more text. User can also select a word to copy, cut and paste it. See "[Editing Text](#)".

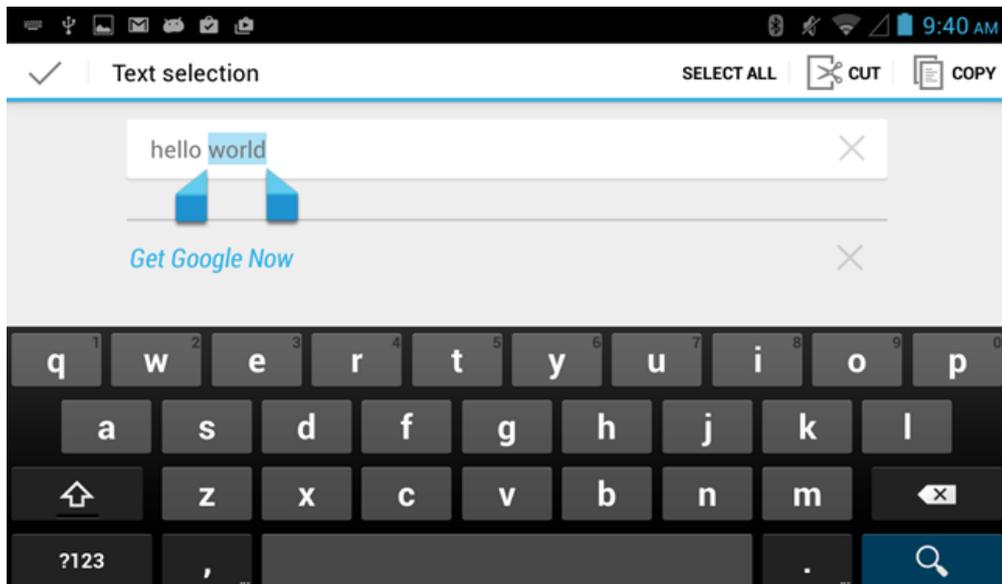
2. Tap the delete key  to erase characters to the left of the cursor.
3. Tap  to enter numbers. Tap  to return to letters.
4. To enter symbols and other characters, tap and hold one of the top-row keys and slide your finger up to the list of the options. Lift your finger when you find your selection.



Editing Text

To select text:

1. Double-tap the text you want to select.
2. Tap **Select All** to select all the sentences in the menu that appears, the selected text is highlighted in blue, with a tab at each end of the selected word.
3. Drag selection tab to expand or reduce the range of the selected text.

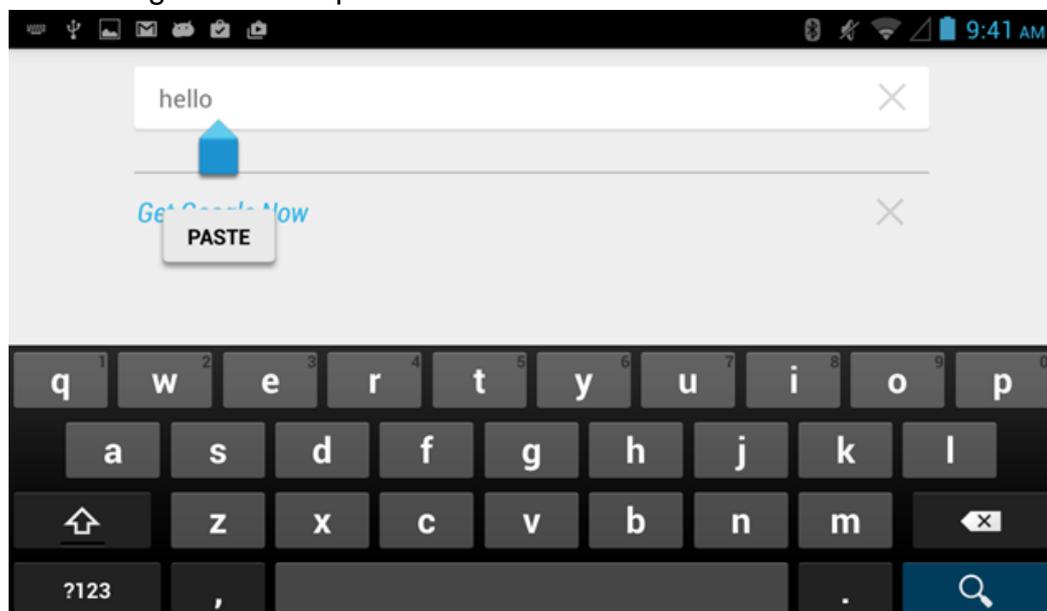


To Cut or Copy Text:

1. Select the text to cut or copy, see the section above "[To select text](#)".
2. Tap  or  in the Edit text menu.
3. If you select , the selected text is removed from the text field; it is stored in temporary area so that you can paste it into different text field.

To Paste Text:

1. After Cut or Copy the text, see "[To Cut or Copy Text](#)".
2. Place the cursor in the text field where you want to paste the text, user can paste text that you copied from one application into a text field in any application.
3. Tap and hold into the location that you want to paste, Tap **Paste** in the menu that opens to replace the existing text with copied text.



Display Settings

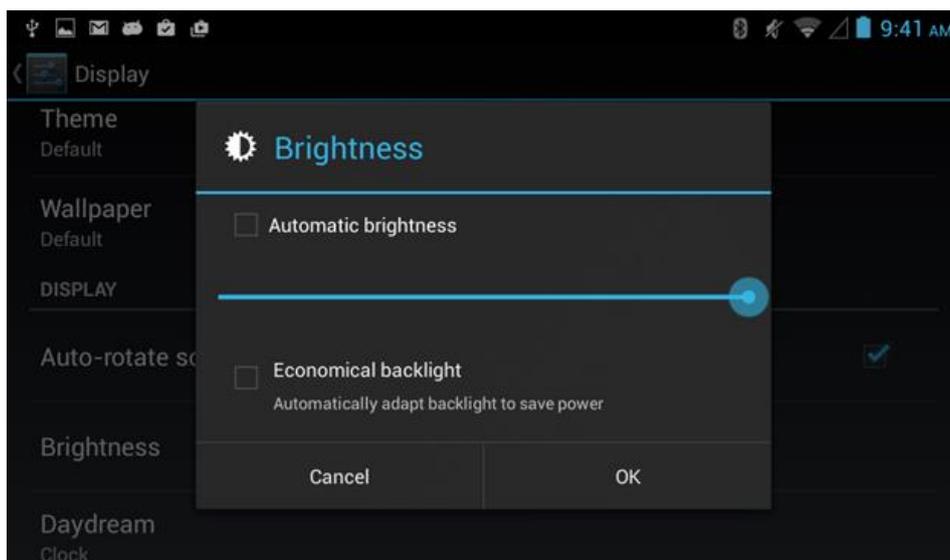
Use the display settings to configure brightness and other screen settings.

1. Tap  and select **Settings** and then tap **Display**.
2. Tap **Brightness**:
 - Tap Automatic Brightness – for adjusting the brightness automatically.
 - Tap Economical Backlight to save power.
 - Slide the bar to adjust the brightness manually.



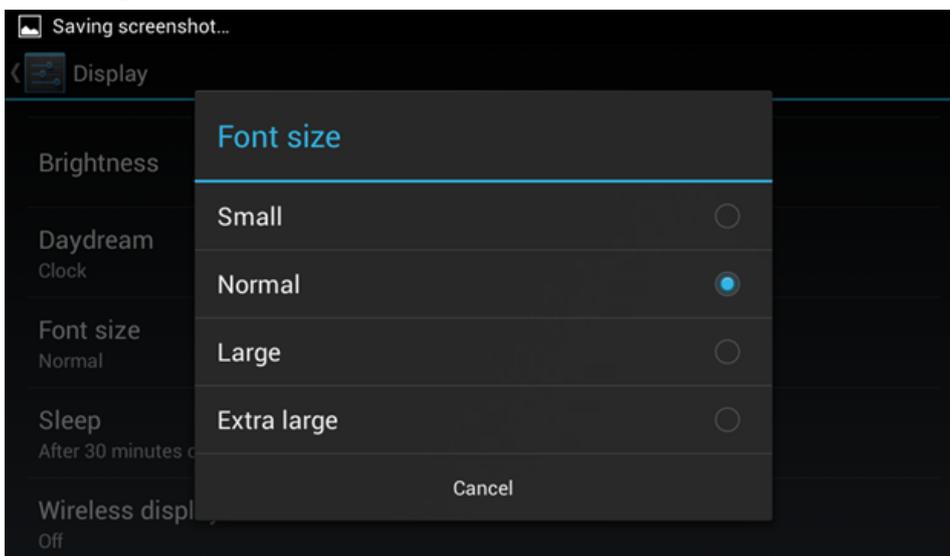
NOTE

For the longest battery life between charges, use the shortest Sleep time.



Use the display settings to configure Font size.

1. Tap **Font Size** to adjust the size, there are several options such as: Small, Normal , Large, or Huge.

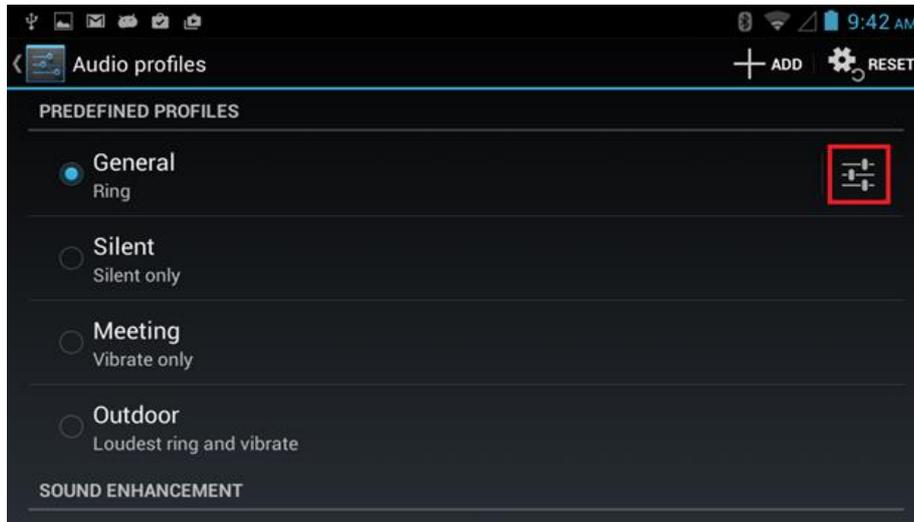


Audio Profile Settings

Use the sound settings to configure how and at what volume the phone rings, vibrates or alerts user in other ways when user receive a call, receive a notification or an alarm sounds.

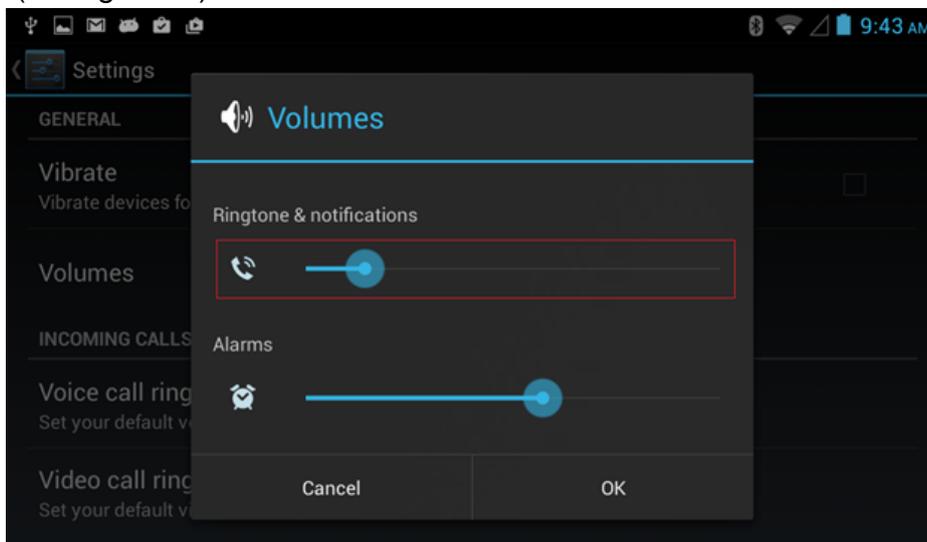
Sounds Settings

1. Tap  and select **Settings** and then tap **Audio profiles**.
2. Tap **General** and then tap the **Settings** (located on the right side of the screen ) user can select to disable or adjust the Music, video games & other media as well as notifications and Alarms.



Adjusting Volume

1. Press the volume keys to change the ring volume (On Home screen) or earpiece volume (during a call).



Language and Keyboard Settings

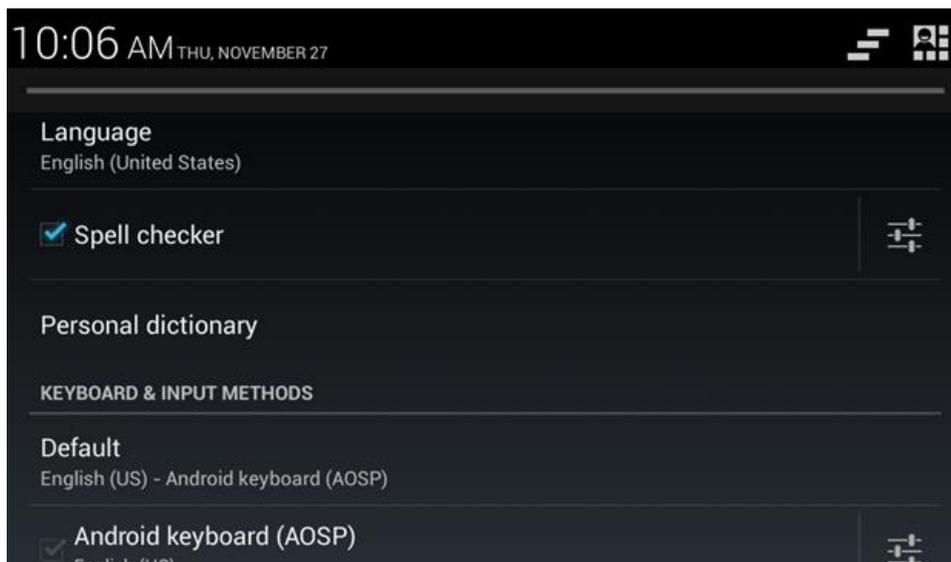
Use the Language & keyboard settings to select the language for the text on your phone and for configuring On-Screen Keyboard, including words that you have added to its dictionary.

1. Tap  and select **Settings** and then tap **Language & input**
2. Tap **Language & Input**.

Language – to open the language screen, where user can select the language to use for the text on the device.

Spell checker – to improve the text-input experience on Android by helping the user quickly identify and correct spelling errors

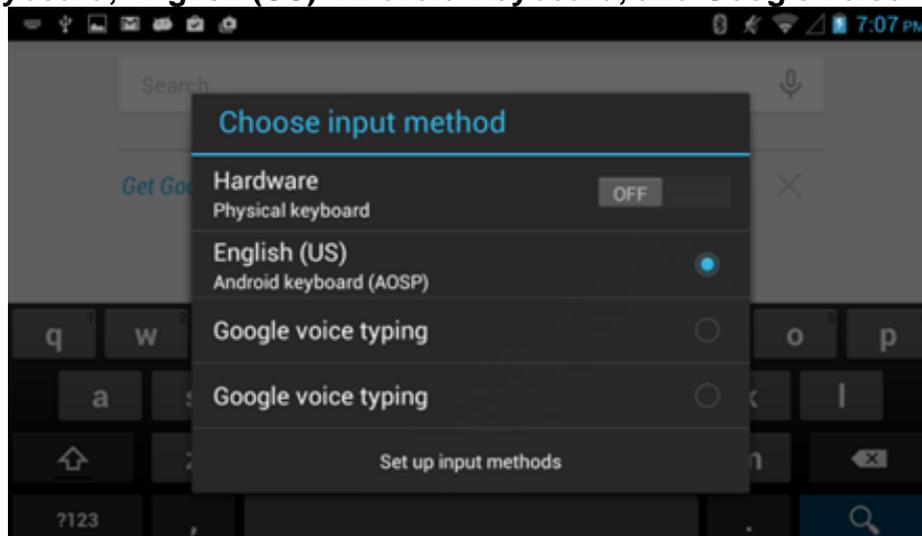
Personal dictionary – to add custom words to a personal dictionary for faster typing



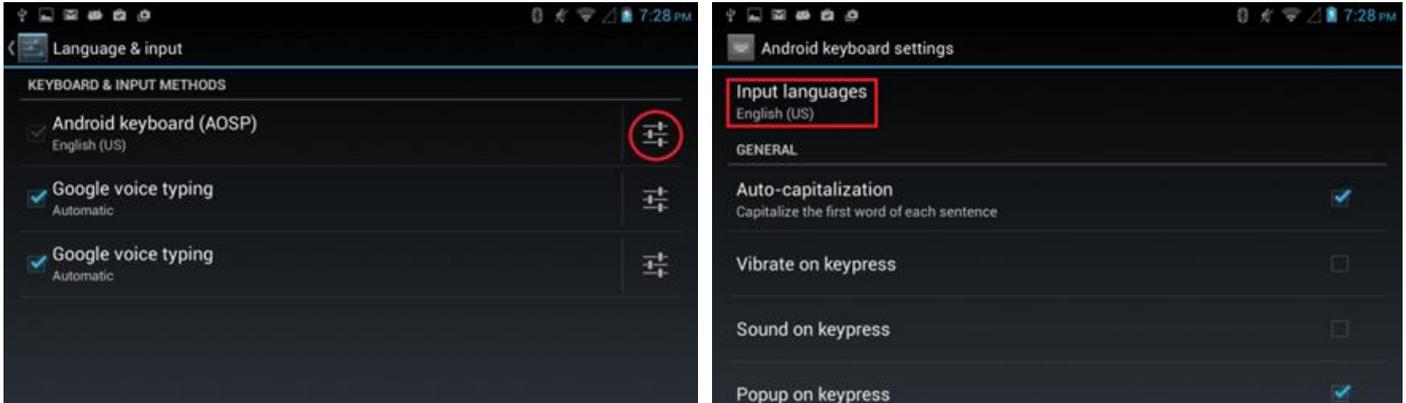
Changing the Keyboard Language

The current keyboard language is displayed on the Space key and user can switch languages.

1. Tap the keyboard icon located on the top right, there are four input options **Hardware-physical keyboard, English (US)- Android Keyboard, and Google voice typing**.



2. If you want to use **Android Keyboard**, make sure to disable the **Hardware-physical keyboard**.
3. Tap **English (US)- Android Keyboard** and in the **Set up input methods**, user can select the languages by tapping (insert icon) and then select the **Input languages >> ACTIVE INPUT METHODS**.



4. Tap **android keyboard settings** to adjust the settings such as Auto capitalization, auto correction or other options

USB Debugging Setting

To permit debugging tools on a computer to communicate with User's Tablet via USB Connection.

1. Tap  and select **Settings** and then Tap **{ } Developer options** and then tap **USB debugging**
2. If the USB is connected, there will be a symbol in the notification icons on the bottom right.

About Phone

System Update — provides information regarding the local or online update of your devices

Status — opens the status screen with a list of information about battery, network, signal strength and other details

Legal Information — lists details about the model number, Android Version, Baseband version etc. this information is useful if user need to work with support team

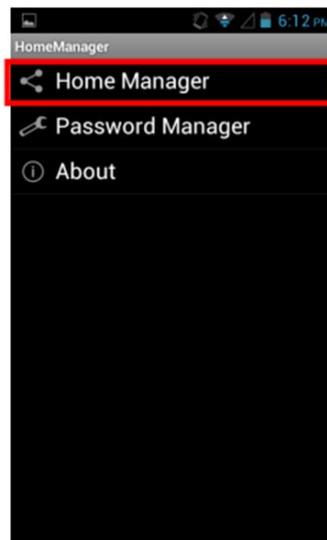
Chapter 3 Using Winmate Home Manager (WHM)

Every M101M4 series Tablet PC comes with preinstalled APP named Winmate Home Manager (WHM). This application lets the device manager to lock the launcher. When the launcher is locked the user can only use one application assigned by the device manager.

How to Lock Applications

Step 1

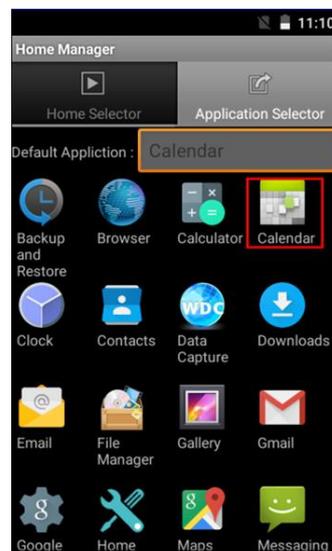
- In the main APPS window, select the Home Manager APP and enable it.
- Select Home Manager to start your settings.
- Go Password Manager and set your own password for this APP. The default password is "0000".



Step 2

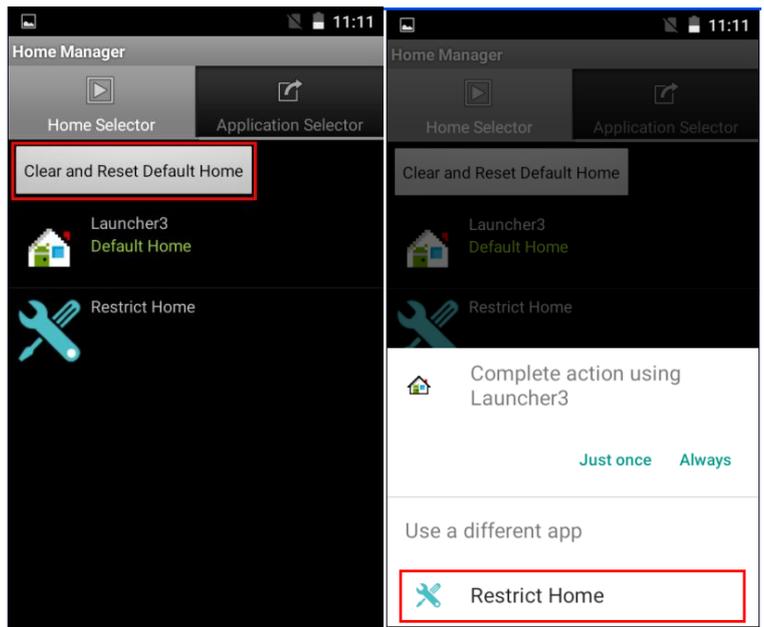
- Go to "Application Selector" and choose an Application to be locked.

Example: Select the Calendar AP.

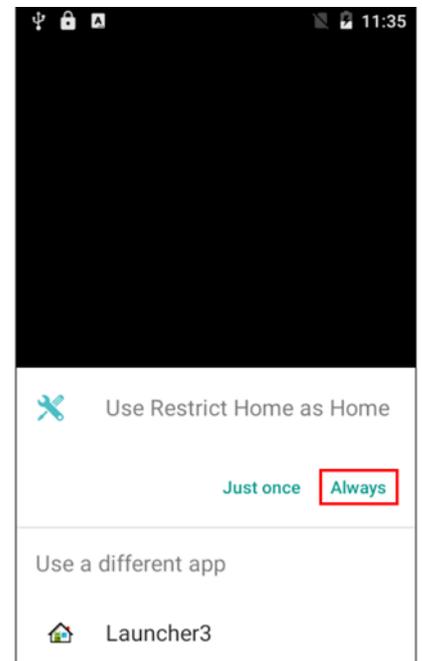


Step 3 Go back to “Home Selector” and press “Clear and Reset Default Home”.

Step 4 Select “Restrict Home” , and then restart the PDA.

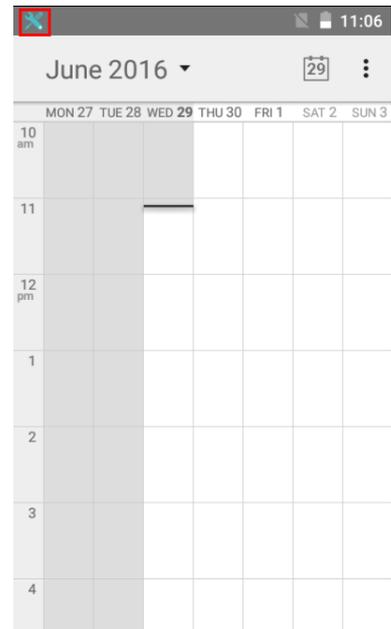


Step 6 System will ask to select “Just once” or “Always” to use this launcher, please select “Always”.



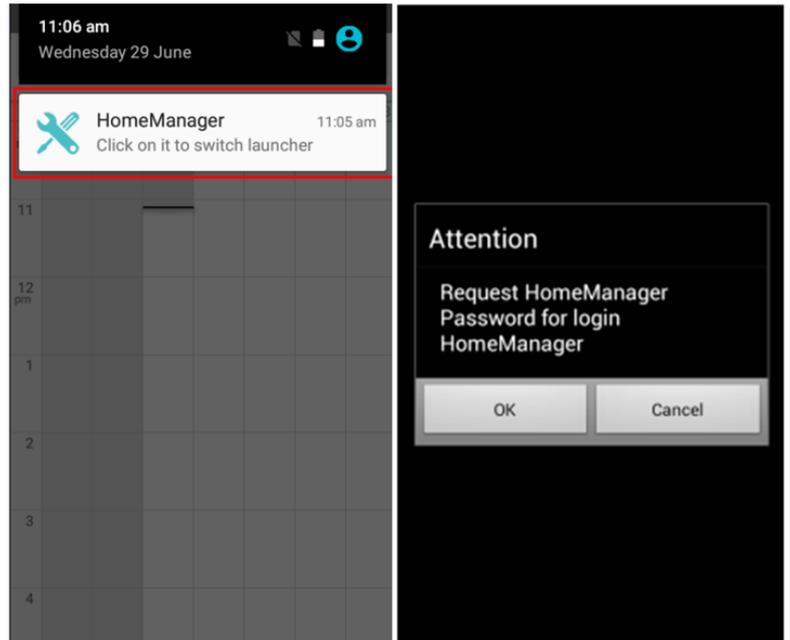
The system will automatically start the application which you selected and lock it.

Any time you press home key or back key, the system will go back to the same application which you have selected.

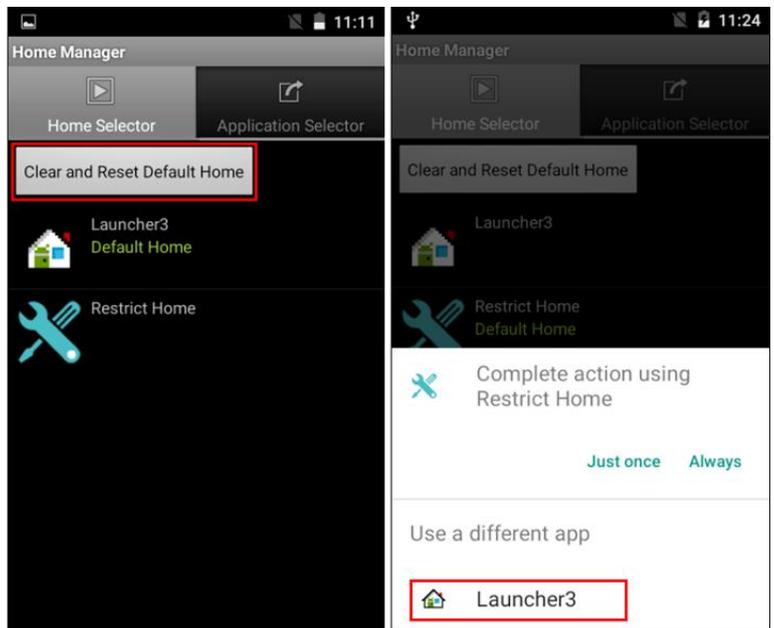


How to Unlock Applications

Step 1 Slide down the top bar and press “**Home Manager**” icon then you can find the menu and please enter the password to login (The default password is “**0000**”).



Step 2 Go back to “**Home Selector**” and press “**Clear and Reset Default Home**”.



Step 3 Restart the system and you will go back to the normal Launcher.



Chapter 4 Connecting to Network and Devices

This chapter explains how to connect PDA to network and peripheral devices.

Connecting to Mobile Networks

When users assemble their M101M4 Rugged Tablet PC with a SIM card from service provider, their phone is configured to use their provider networks for voice calls and for transmitting data.

Different locations may have different mobile networks available; user may need to configure their phone to use certain networks.



NOTE

To obtain faster networks configure the phone to 4G.

To extend the life of battery user can use 2G network.

Checking the Network (3G/4G/LTE) Connection

1. Tap  and then tap **Settings**
2. Tap **More ...** in the **Wireless & networks**, and then tap **Mobile networks**
3. Tap **Network operators** to choose a network operator

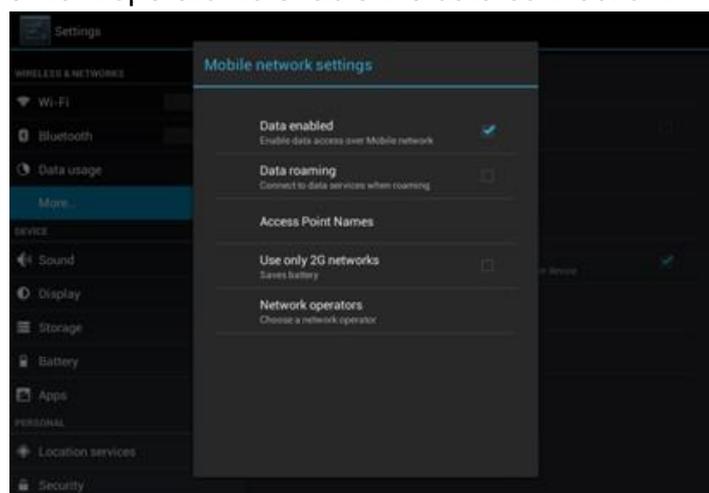


IMPORTANT

Do not change the parameters of the access point to prevent inability to access network sources.

Turning on Data Service

1. Tap  and then tap **Settings**.
2. Tap **More...** in the **Wireless & networks**, and then tap **Mobile networks**.
3. Tap **Data enabled** to enable data access over mobile network.
4. Select the desired network operator to enable the data connection.



Connecting to Wi-Fi Networks

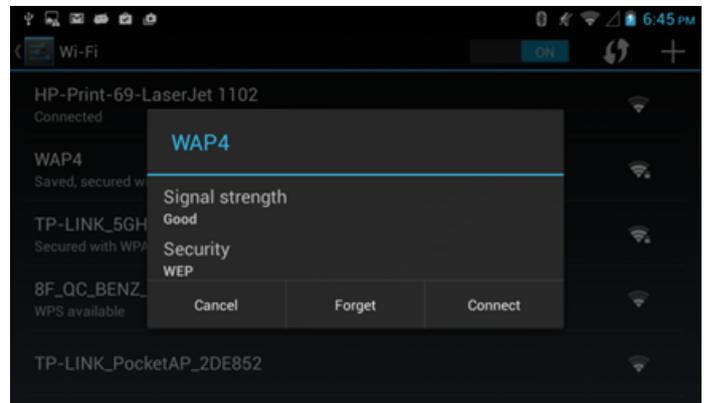
Turning ON the Wi-Fi and Connecting to Wi-Fi networks

1. Tap  and then tap **Settings**.
2. Tap **Wireless & networks** and then select **Wi-Fi** to turn it on.
3. Tap **Wi-Fi**

The device scans for available Wi-Fi networks and displays the list of it. Secured networks are indicated with a lock icon .

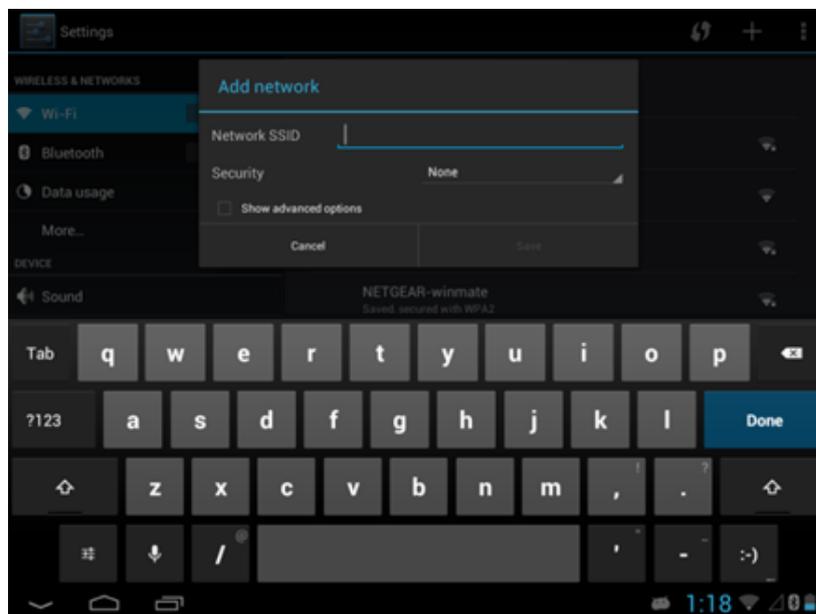
If the phone finds a network that you have connected previously, it connects to it automatically.

4. Tap a network to connect to it;
 - If the network is open, you are prompted to confirm that you want to connect it by tapping **Connect**.
 - If the network is secured, users are prompted to enter a password or other credentials.
5. To check the details about the speed, security, address and related settings, tap its name in the Wi-Fi settings screen.



Adding Wi-Fi Network

1. Turn on Wi-Fi, in the Wi-Fi settings screen, tap  icon (at the top right of the list of discovered networks)
2. Input the SSID (name) of the network, if the network is secured, tap the security menu and then tap the type of security deployed on the network.
3. Enter any required security credentials
4. Tap **Save**



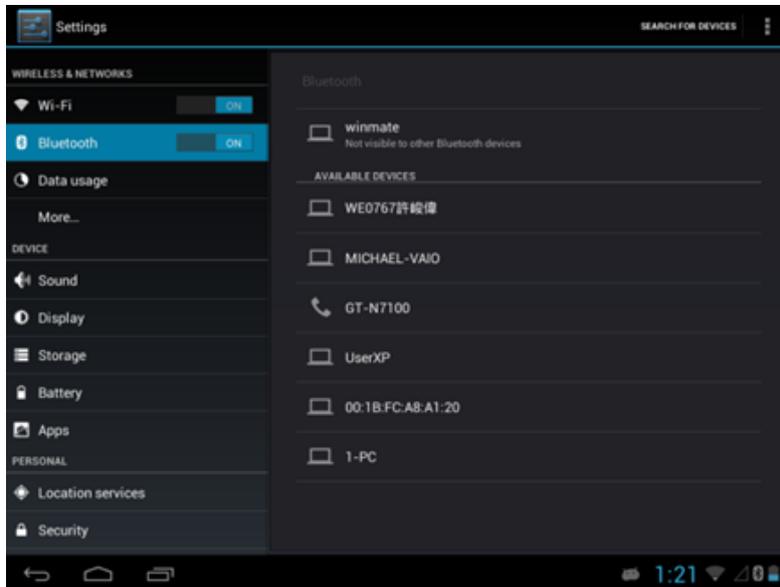
Connecting to Bluetooth Devices

Turning Bluetooth ON or OFF

1. Tap  and then tap **Settings**.
2. Tap **Wireless & networks** and then select **Bluetooth** to turn it on.

Connecting to Bluetooth Device

1. Tap  and then tap **Settings**.
2. Tap **Wireless & networks**, and then tap **Bluetooth**.
3. It will automatically scans and displays the IDs of all available Bluetooth devices in range. Tap **SEARCH FOR DEVICES** to search other Bluetooth devices.
4. Tap the ID of the other device in the list in Settings to pair them.



Disconnecting Bluetooth Device

1. Tap the device in the Bluetooth settings screen.
2. Tap **OK** to confirm that you want to disconnect.

Connecting to Computer via USB

User can connect their M101M4 Tablet PC to a computer with USB cable to transfer files between the Tablet PC and computer.



- When connecting your Tablet PC to a computer and inserting its USB storage or SD card, user must follow the computer's instructions for connecting and disconnecting USB device, to avoid damaging or corrupting files.

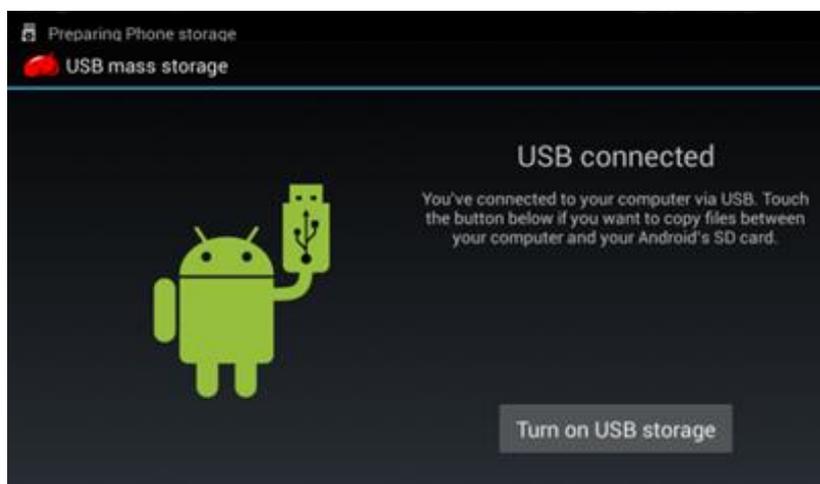
IMPORTANT

- Notice that the M101M4 cannot be charged via USB.
-
-

USB Computer Connection

To connect your Tablet PC to a computer via USB:

1. Use the USB cable that came with your Tablet PC to connect the device to a USB port on your computer.
2. After received a notification that the USB is connected, tap the notification icon and then tap **USB connected** .
3. Select **Turn on USB Storage** to let user transfer media files on windows, or using Android File Transfer.



4. When the device is connected as USB storage, the screen indicates that USB storage is in use and user will receive a notification.



Carefully follow your computer's instructions to un-mount the USB storage or SD card. Disconnect USB device not properly can cause a loss of important data or information.

IMPORTANT

When user finished, simply disconnect the tablet by unplugging the USB cable.

Chapter 5 Using Camera

This chapter explains how to use camera to capture photos and videos.

Capturing Photos or Video

Winmate® M101M4 equipped with 8 MP on the rear side and 2 MP on the front side, which user can use to capture photos or video.

Opening Camera

1. Tap the **launcher** and then tap **Camera** .

Camera opens in Portrait mode, ready to take a picture or shoot a video

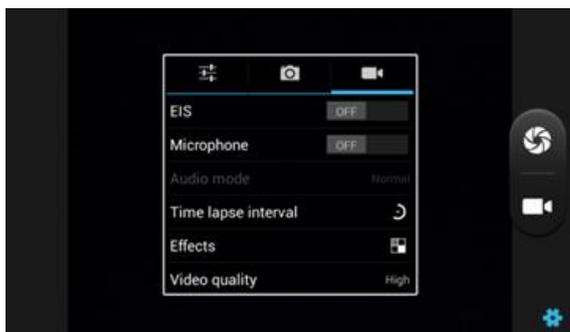
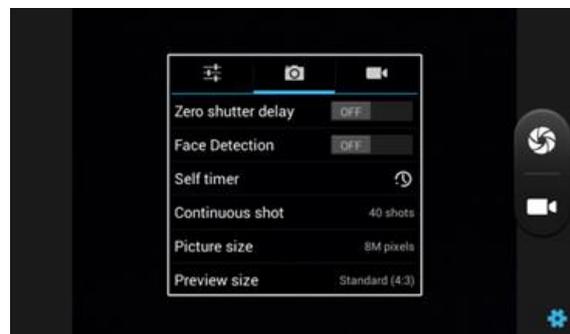


IMPORTANT:

Make sure the protective lens cover is clean before taking pictures. A lens cover with smudges from fingers can cause blurry pictures.

Taking pictures

1. Adjust the exposure, flash, and other necessary settings. Or leave it automatic.
2. Frame your subject / object on screen
3. *Pinch* to zoom in or out.
4. Tap the On Screen Shutter icon .
5. The camera brings the image into focus, when the image is in focus, the focus indicators in each corner will turn green and ready to capture
6. Touch  to change camera settings



Switching between front and rear cameras

M101M4 has both a front and rear camera, user can select which camera you want to preview and take pictures with.

1. Tap the On Screen Select Camera icon to switch between the rear camera and the front camera .
2. The preview switches to show the scene viewed from the camera you selected.



Not all features (such as flash) are available for the front camera.

Viewing pictures

1. After taking a photo, a thumbnail of the picture is shown on the corner of the capture screen. Tap the thumbnail to view it.
2. Tap the onscreen button:



to share photo



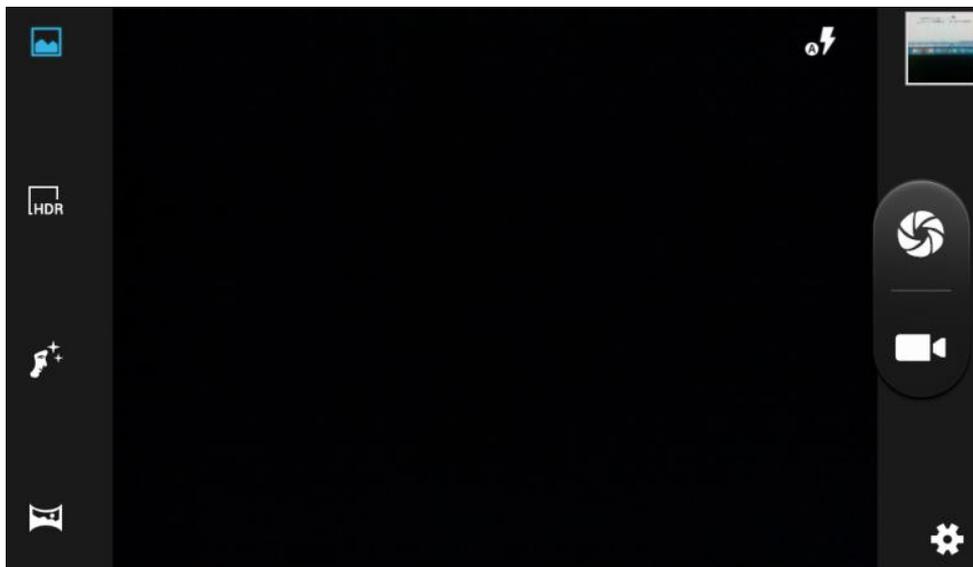
to delete photo



to view other photo or video in the galleries Swipe right or left to view more.

Shooting videos

1. Tap  to switch from camera to video mode.
2. Point the lens to record the scene where you want to start.
3. Tap the On Screen  icon to start recording.
 - a. The time remaining to shoot counts down at the left; when less than a minute is left, the countdown turns red.
4. Tap the  icon again to stop shooting.



Opening the Gallery

1. Tap the launcher and then tap Gallery .
2. Tap a folder to view the pictures or video inside in full screen mode.
3. Flick the pictures left or right to view the previous or next picture.

Chapter 6 Capturing Data

This chapter explains how to use Barcode Reader and Android Winmate® Data Collection application on M101M4.

Using Barcode Reader

Location

1D/2D Barcode Reader is an optional feature for Winmate® M101M4 and may not be present in your device. Barcode Reader is located on the top right side of the tablet PC.

Top Side:



Barcode Reader

Android Winmate Data Collection (WDC)

The M101M4 with Barcode Reader comes with pre-installed software made by Winmate® - Winmate Data Collection (WDC) that allows users to turn on the readers and set up the button to trigger the scan function.

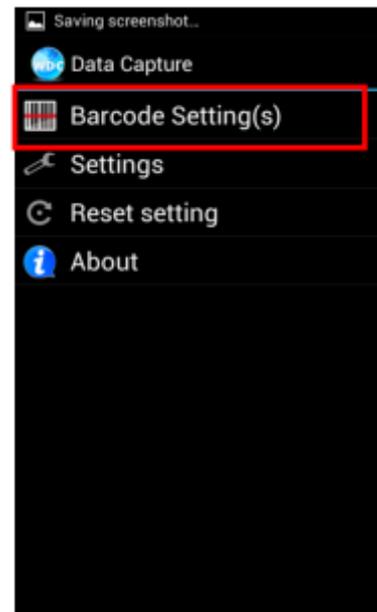
Where To Find WDC

1. Tap application menu .
2. User can find the application **Data Capture (WDC)** on the menu screen, with the Globe mark .
3. User can change the settings of the Barcode Reader through WDC application.

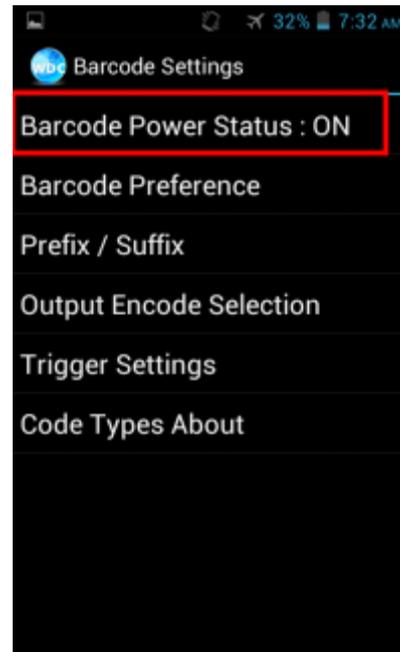


How to Turn On/Off the Power of Barcode Reader

1. Go to the **WDC** application.
2. Tap **Barcode Setting**.



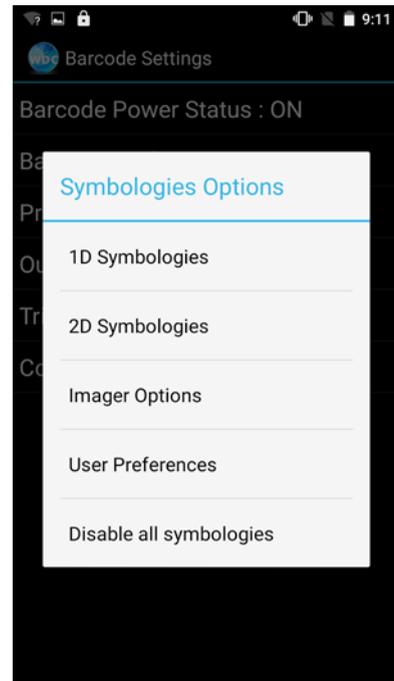
3. Once the user entered the WDC application, the device will automatically turn on the Barcode Reader. And the user can turn off the Barcode Reader by tapping **Barcode Power Status: ON**.



How to Change the Symbologies of Barcode

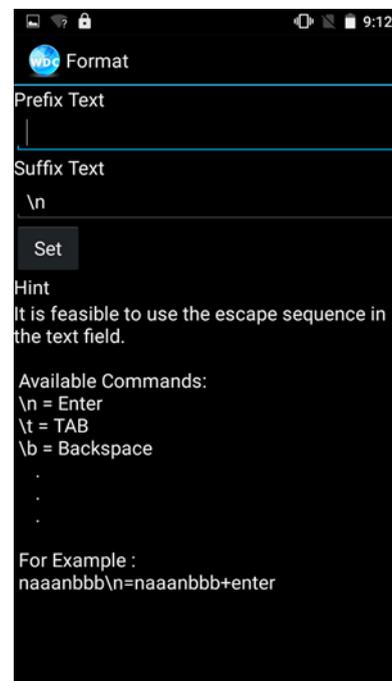
1. Go to the **WDC application**.
2. Tap **Barcode Setting**.
3. Tap **Barcode Preference**.
4. Users can change the symbologies of the barcode:

- 1D Symbologies
- 2DSymbologies
- Imager Options
- User Preference
- Disable all symbologies.



How to Add a Command to My Output of the Barcode

1. Go to the **WDC application**.
2. Tap **Prefix / Suffix**.
3. Enter special characters at the beginning (prefix) or end (suffix) of the scanned barcodes.
4. Tap **Set** to add into the data.



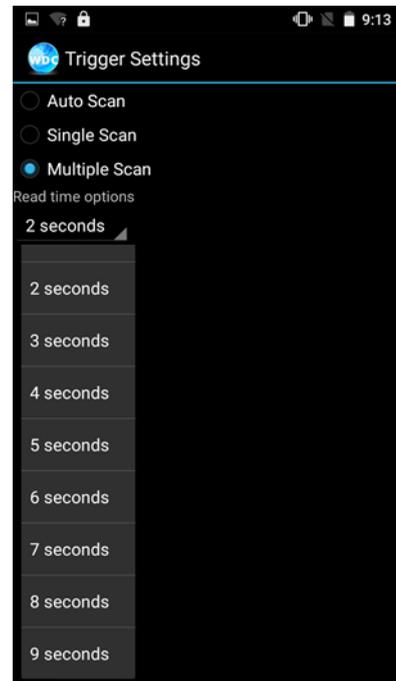
The output will show the command that you entered in the prefix or the suffix;

For example, if user enters “\n” in the **prefix text**, the output of the barcode reader will appear on the next line of the page. And if the user enters “\n” in the **suffix**, the **output of the barcode reader** will show the barcode and change to the start of the next line for the user. Same with the command “\t” and “\b”.

How to Change the Scan Type of the Barcode Reader

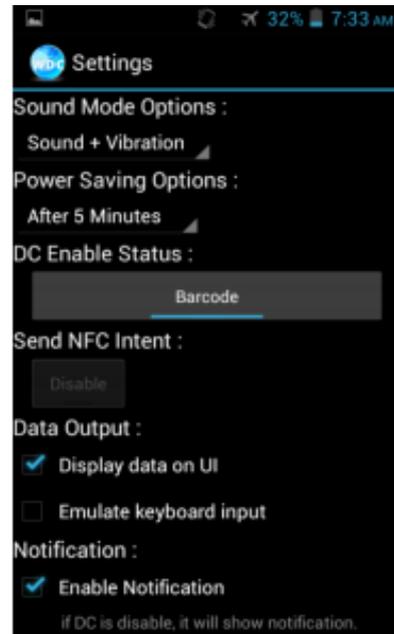
1. Go to the “WDC” application.
2. Tap **Trigger Settings**.
3. Select the **Scan Type** or select read time of the Barcode Reader.

- **Auto Scan** – Barcode reader starts auto-scanning once user leaves the application page.
- **Single Scan** – Barcode reader starts scanning only when user presses the trigger button.
- **Multiple Scan** – Barcode reader can continuously scan and read multiple codes within the duration after pressing the trigger button.
- **Continuing Scan (default)** – Barcode reader can only read the first codes after user presses the trigger button

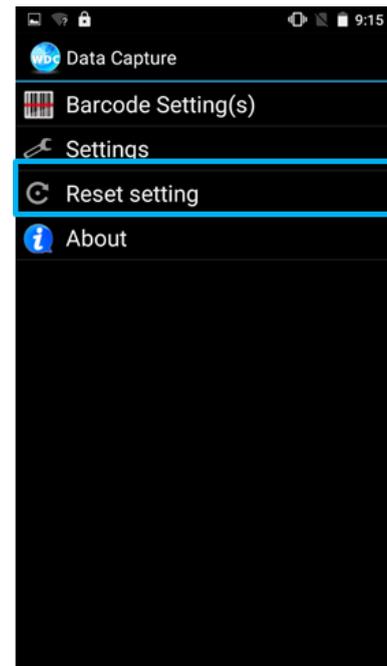


How to Change the WDC Settings or Reset the Setting Back to Default

1. Go to the **WDC** application.
2. Tap **Settings**.
3. Users can select the options to change the setting of the application.



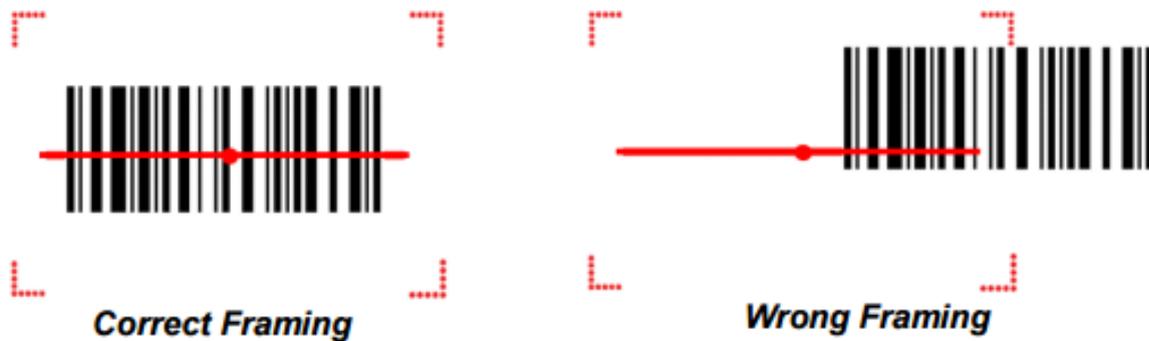
- Users can reset to the default setting by tapping **Reset setting**.



Scanning the Barcode

How to scan the barcode?

- Press the function button to trigger the barcode.
- Aim the barcode.
- Ensure the entire barcode is within the rectangular area formed by the brackets in the laser framing.



- Release the trigger.

Scanning Tips and Considerations

Distance

Scanning device will decode perfectly over a certain working range, there are minimum and maximum distance from the barcode. To specify the appropriate working range per barcode type is through a table as follows.

Symbology	Density	Min Distance	Max Distance
Code 39	0.100 mm	9.5 cm	11.5 cm
	0.125 mm	8.0 cm	14.5 cm
	0.500 mm	6.5 cm	50 cm
	1.000 mm	9.5 cm	75 cm
EAN / UPS 100%	0.33 mm	6 cm	34 cm
DataMatrix	0.18 mm	7.5 cm	16.5 cm
	0.25 mm	6.0 cm	23.0 cm
	0.38 mm	5.5 cm	34.5 cm
PDF417	0.25 mm	5.5 cm	26 cm
	0.38 mm	6.5 cm	37 cm

Angle

Scanning angle is important for promoting quick decodes.

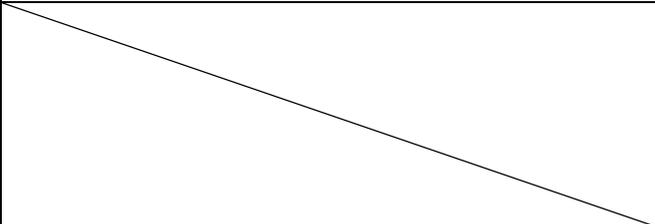
Scanning Angle	Horizontal 34.4°	34.4°
	Vertical	22.2°
Framing Angle	Horizontal	30°
	Vertical	20°

Chapter 7 Accessories

M101M4 accessories provide a variety of product support capabilities. Some of the accessories are optional and are not included to standard packaging list.

Standard Accessories

M101M4 Standard Accessory List:

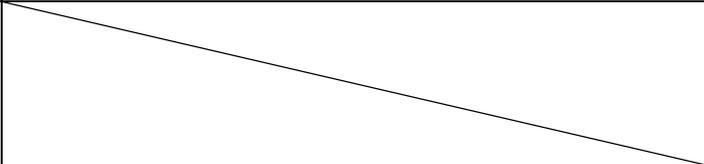
<p>Adapter and Power Cord</p> <ul style="list-style-type: none"> • 100-240VAC to 12VDC@3A • Country specific power cords available 	<p>Standard Battery</p> <ul style="list-style-type: none"> • Model Name: BS101 • 7.4V / min. 5140 mAh Li-Polymer Battery, 2S1P • Dimensions: 153 x 122 x 11 mm • Weight: 276 g
<p>Capacitive Stylus</p> <ul style="list-style-type: none"> • Model Name: CTS-V1 • 9.5mm / 5.5Φ 	

**M101M4 will be shipped with the socket according to your order.*

Optional Accessories

M101M4 Optional Accessory List:

<p>Desk Dock</p> <ul style="list-style-type: none"> • Model Name: DD-M101M4 • USB 2.0 x 4 (Rear x2, Side x2) • LAN (10/100) / RS232 • 12-19V DC IN 	<p>Vehicle Dock</p> <ul style="list-style-type: none"> • Model Name: VD-M101M4 • VESA Mounting support • USB 2.0 x 4 (Rear x2, Bottom x2) • 9-36V DC IN with 3-pin terminal block • Easy insert and release with Key-Lock
<p>Battery Charger</p> <ul style="list-style-type: none"> • Model Name: BC-M101 • Dual-bay charging dock • Power level LED indicators • Buzzer to indicate battery is inserted • Supports up to 3 set of dock interconnected 	<p>Carry Bag</p> <ul style="list-style-type: none"> • Model Name: CB-M101 • With Hand Carrier and Shoulder Strap • Separated pocket for accessories

<p>Hand Strap</p> <ul style="list-style-type: none"> • Model Name: HS-M101 • Fixed with screws • Adjustable for both battery sizes 	<p>Shoulder Strap</p> <ul style="list-style-type: none"> • Model Name: SS-M101 • Fixed with screws • Adjustable cross-body strap (85-165cm) with pad • Weight: 94g
<p>Mobile Printer MX20</p> <ul style="list-style-type: none"> • Print width: 1.89-inch(48mm) • Drop & Fit label installation design • IP54 water / dust resistant and 1.5M shock resistant • Supports both wire (RS232 and USB ports) • Long standby time up to 72 hours or 300 label cycles between charges 	<p>Mobile Printer MX30</p> <ul style="list-style-type: none"> • Print width: 2.8-inch(72mm) • Supports multiple label width & types • Drop & Fit label installation design • Water and dust resistant meeting IP54 standard • Versatile interfaces with both wire (RS232 and USB) & wireless (Bluetooth) connectivity
<p>VESA Mount Kit</p> <ul style="list-style-type: none"> • Model Name: VS-M101 • 75x75 mm VESA Mount 	

Appendix A: Product Specifications

		Model Name
		M101M4
Display Specification	Size/ Technology	10.1-inch
	Resolution	1280 x 800
	Brightness	300 nits with Optical Bonding for Sunlight Readability
	Touch	Multi-Touch Projective Capacitive
	Contrast Ratio	800:1
	Viewing Angle	89/89/89/89
System Specification	Processor	ARM Cortex A7 Quad Core 1.5GHz
	System Memory	1GB
	Storage	16GB eMMC
	OS	Android 4.2
Wireless Communications	WLAN	802.11 a/b/g/n
	Bluetooth	Bluetooth 3.0
	GPS	Built-in / Optional u-Blox NEO-6Q
	WWAN	Built-in 3G/ Optional 4G LTE
System I/O Buttons Indicators Sensors Security	Audio	1 x Built-in 1W Speaker
	External I/O	1 x Micro USB 2.0 OTG, 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Power Jack, 1 x Micro SD Card Reader
	Buttons	Power / Home / Back / Menu / Vol + / Vol -
	LED Indicators	1 x Status Indicator
	Sensors	Light Sensor / G- Sensor / Gyroscope / E-Compass
	Security	Kensington lock

Data Capture	Camera	Front: 2MP Camera with built-in microphone Rear: 8MP Auto-Focus Camera with LED Flash
	Barcode	Optional Motorola SE4500 2D Barcode Reader Built in
Mechanical and Environment	Dimensions (W x L x H)	271.8 x 197.2 x 19 mm (w/o Barcode Reader) 271.67 x 198.20 x 21 mm(w/ Barcode Reader)
	Weight	1.15 Kg
	Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
	Storage Temp.	-20°C to 60°C (-4°F to 140°F)
	Humidity	30% to 90% 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 *
	Certifications	CE, FCC
Power Management	Power Input	12 DC IN
	Battery	7.4V 5140mAh Li-ion Battery (2S1P)
	Battery Operating Time	Std. Battery: 10 hours**
	Adapter	100-240V, 50-60Hz / 12V DC

* 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.

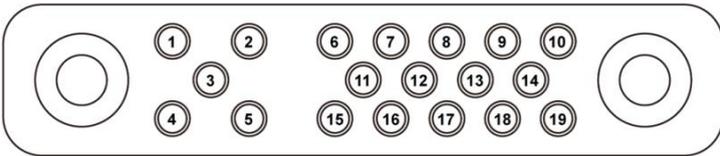
Appendix B: Ordering Information

M101M4 Series available in the following configurations:

Model Number	Specifications
M101M4	Standard
M101M4-BM	1D/2D Barcode Reader

Appendix C: Docking Connector

M101M4-series tablet computer supports one 19-pin docking connector at the bottom side. The pin definition is listed as the following table.



19 Pin Docking Connector			
Pin No.	Description	Pin No.	Description
1	RF_GND	11	NC
2	DOCK_DET #	12	NC
3	GPS ANT	13	GND
4	RF_GND	14	Power
5	RF_GND	15	USB+
6	NC	16	USB-
7	NC	17	GND
8	DETECT+	18	GND
9	Power	19	DETECT-
10	Power		

Appendix D: Software Development Kit

Winmate® provides Software Development Kit (SDK) for M101M4 Rugged Android Tablet PC.

Item	File Type	Description
1	Development Kit	2D Barcode Reader M101M4-BM_Android Development Kit

Download SDK from Winmate Download Center or Winmate File Share.

1 Winmate Download Center:

<http://www.winmate.com> > Support > Download Center > Rugged Tablet PCs > M101M4 > Development Kit/ Drivers/ Manual

Or follow the link:

<http://www.winmate.com/DownCenter/DownLoadCenter.asp?DownType=2212>

2 Winmate File Share

<http://www.winmate.com> > Support > Partner Portal > Public Documents > Tablet PC > M101M4 > Development Kit / Drivers / Manual

Or follow the link: <https://winmate.box.com/v/Rugged-Tablet-M101M4>



Winmate Inc.

9F, No.111-6, Shing-De Rd., San-Chung District,
Taipei 241, Taiwan, R.O.C

Tel: 886-2-8511-0288

Fax: 886-2-8511-0211

Email: sales@winmate.com.tw

Official website: <http://www.winmate.com>