

E500RM9

5" Rugged Mobile Computer

ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)



User Manual

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Chapter 1: Read Me First

1.1 Advisory Conventions

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

**Note:**

A note is used to emphasize helpful information

**Important:**

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



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

Attention Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème potentiel.



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

Avertissement! Un Avertissement de Choc Electrique indique le potentiel de chocs sur des emplacements électriques et comment éviter les problèmes.

1.2 Safety Information



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

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

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

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

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

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

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

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

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

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

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

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

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

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

[FR] Ne pas utiliser avec un autre produit La batterie est rechargeable et a été conçue pour un produit spécifique. Si elle est utilisée sur un produit différent

de celui pour lequel elle a été conçue, des pertes d'électrolytes et une production de chaleur sont possibles, elle risque également de prendre feu ou de casser.

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

[FR] Ne pas utiliser ce produit avec une batterie autre que celle spécifiée

Discontinue using device immediately if you notice the battery is swelling, or looks puffy or misshapen. Do not attempt to charge or use the device. Do not handle a damaged or leaking battery. Do not let leaking battery fluid come into contact with your eyes, skin or clothing.

[FR] Si vous remarquez une pile gonflée, élargie ou anormale, cesser l'utilisation de l'appareil immédiatement. N'essayez pas de recharger l'appareil ou de l'utiliser. Ne pas manipuler une pile qui fuit ou qui est endommagée. Ne laissez pas de liquide qui fuit entrer en contact avec vos yeux, votre peau ou vos vêtements.



General Product Safety **Sécurité générale des produits**

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

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

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

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

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

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

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

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

Use only accessories specified by the manufacturer.

[FR] Utiliser uniquement les accessoires spécifiés par le fabricant.

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

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

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

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

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

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

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

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



General Guideline **Directive générale**

It is recommended to reboot the device when some functions are defect or inactive. If it still can't solve the problems, please contact your dealer or agent.

Il est recommandé de redémarrer l'appareil lorsque certaines fonctions sont défectueuses ou inactives. Si le problème persiste, veuillez contacter votre revendeur ou votre agent.

1.3 Handling and Maintenance



General Guideline *Guide Général*

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

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

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

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

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

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

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

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



Cleaning Guideline *Guide de nettoyage*

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

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

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

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



Touchscreen Guideline *Guide de l'écran tactile*

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

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

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

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

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

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

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

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

1.4 Declaration of Conformity (DoC)

FCC Statement

This device complies with part 15 FCC rules.



Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation

This equipment has been tested and found to comply with the limits for a class "B" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Notice (European Union)



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 directions.

1.5 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.

1.6 Trademark Acknowledgement

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

1.7 Disclaimer

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

Chapter 2: Getting Started

This chapter tells you step by step how to get the mobile computer up and running.

2.1 Introduction

Congratulations on purchasing Winmate® 5-inch Rugged Mobile Computer E500RM9.

Winmate® E500RM9 Rugged Mobile Computer is an enterprise-class Rugged Mobile Computer with powerful mobile computing solution. The E500RM9 Series Rugged Mobile Computer packs WLAN, BT, 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.

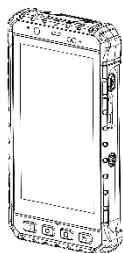
Highlights

- ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)
- 5" 1280 x 720 resolution
- Android™ 11.0
- IP65 waterproof and dustproof
- Rated for extreme temperature use

2.2 Unpacking

Check and identify the standard supplied accessories.

Standard factory shipment list:



E500RM9

Varies by product specifications



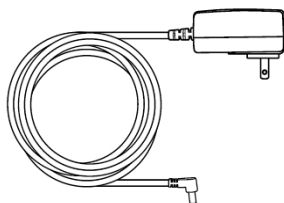
Quick Start Guide (Hardcopy)

Part No. 9152111K105B



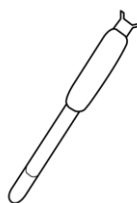
Li-ion Battery

Part No. 32000000001K



Power Plug

Varies by country



Hand Strap

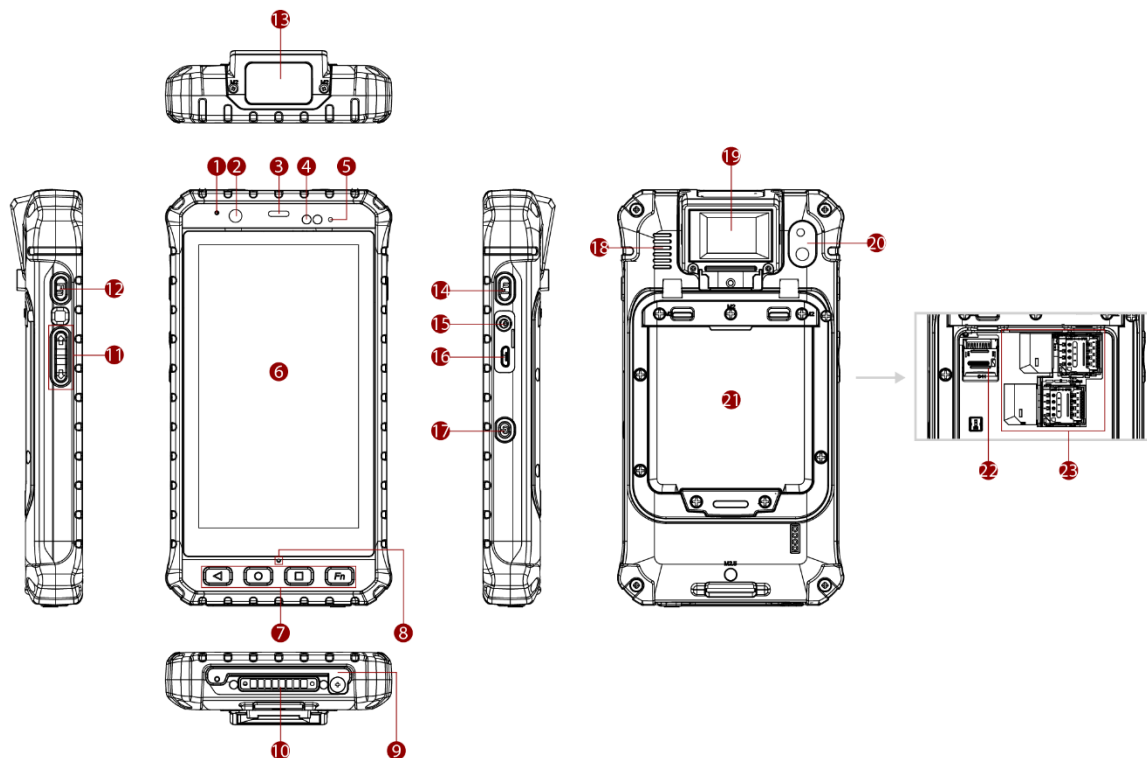
Part No. 9B0000000416

Optional Accessories:

- **Charging Dock**
DD-E50R-2: Part No.98TA05Z00002
MD-E50R-6: Part No. 98DP05A00001
- **Battery**
Part No. 98K004A0000N
3.7V 3900mAh Li-ion removable battery
- **Battery Charging Dock**
BD-3900-2: Part No.98K004A0000G
BD-3900-6: Part No. 98K000A0004G
- **Micro SD Card**
Part No.760000000000V

2.3 Description of Parts

Dimension: 85.9 x 163.2 x 22.5 mm



No	Item	Description
1	Microphone	For audio recording and communication.
2	Front Camera	8 Megapixel Webcam
3	Front Receiver	Use to listen during a phone conversation.
4	Light Sensor	Detect the availability of light and automatically control the brightness of a screen backlight intensity
5	LED Indicator	LED indicator indicates the battery power or charging status. <ul style="list-style-type: none"> • Red: 0~89% • Green: 90~100% • Off: the mobile computer is not charging nor properly connected.
6	5" Touch Screen	Display and act as one of the inputs for the mobile computer
7	Physical Buttons	<div> <div>◀</div> <div>○</div> <div>□</div> <div>Fh</div> </div> <div> <div>Back to the previous utility's screen</div> <div>Open the home screen</div> <div>Open the menu page</div> <div>Use to trigger the barcode reader function (optional) Note: Fn key functions may be programmed according to your order.</div> </div>
8	Microphone	For audio recording and communication.
9	Smart Card Reader (Optional)	Read card information
10	Docking Connector	Connect to desk docking
11	Volume Buttons	Increase and decrease volume
12	Function Button	Use to trigger the barcode reader for E500RM9 series with barcode reader (only for products with barcode reader)
13	Barcode Reader (Optional)	1D/2D Barcode Reader (*or a flat cover for device without barcode)
14	Function Button	Use to trigger the barcode reader for E500RM9 series with barcode reader (only for products with barcode reader)
15	DC Jack	Charging the device
16	Micro USB	For data transfer and connect to the peripheral devices

No	Item	Description
17	Power Button	Turn on/off the device
18	Speaker	Send out the voice from the device
19	Fingerprint reader (Optional)	Scan fingerprints
20	Rear Camera	13MP Autofocus Camera.
21	Battery	3.7V, 3900 mAh with warm swappable function (Optional)
22	MicroSD Card Slot	Memory card reader port for SD Card
23	SIM Card Slot	Slot to insert Micro SIM card.

2.4 First-Time Operation

2.4.1 Inserting Battery Pack



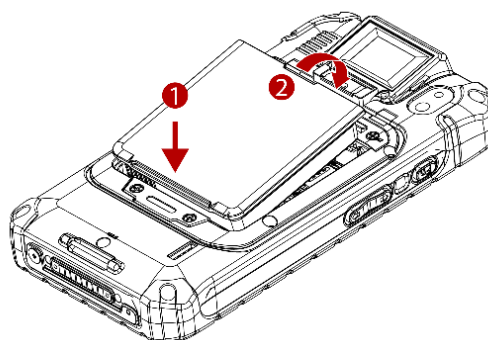
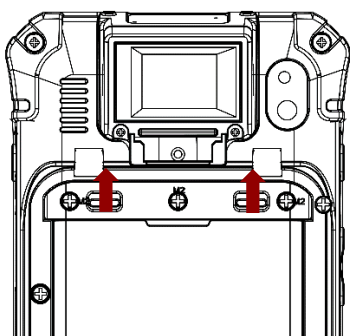
Warning! Discontinue using device immediately if you notice the battery is swelling, or looks puffy or misshapen. Do not attempt to charge or use the device. Do not handle a damaged or leaking battery. Do not let leaking battery fluid contact with your eyes, skin, or clothing.



Caution To keep battery health and prevent possible issues from battery over-discharged, please charge the computer built-in back-up battery once every two months.

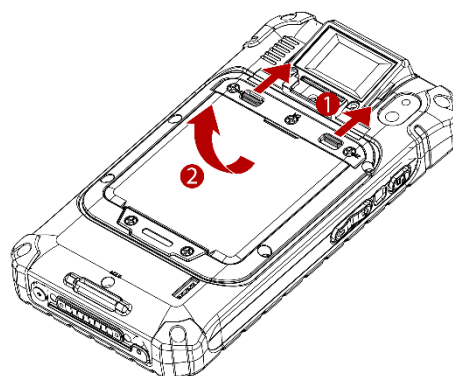
To install the standard battery pack:

1. Disconnect any cords connected to the mobile computer and turn the device over, back facing up.
2. Locate the Battery Lock Latch and push it to the "Unlocked" position.
3. Insert the battery with the connector-pins side first, and then lower the battery into the battery compartment. The battery will be flat against the housing once fully inserted.
Slide the Battery Lock to the "Locked" position



To remove the battery pack:

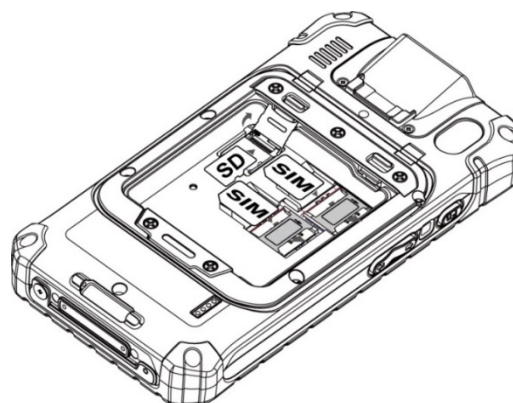
1. Shut down the device. Disconnect any cords connected to the device.
2. Turn the mobile computer over, back facing up.
3. Locate the Battery Lock and slide it to the "Unlocked" position.
4. Lift the battery out of the compartment.



2.4.2 Installing SIM and MicroSD Card

To install the SIM card:

1. Disconnect any cords and powered off the mobile computer. Remove the battery, as described in the section *Inserting Battery Pack*.
2. Push and lift the SIM-card slot.
3. Insert the SIM card into the SIM-card slot. **Chip/contact is facing down.**
4. Push the SIM-Card slot back to the original position.
5. Put the battery back.



To install MicroSD Card:

1. Remove the battery, as described in the section *Inserting Battery Pack*.
2. Push and lift the microSD-card slot.
3. Insert microSD card into slot. **Chip/contact is facing down.**
4. Close the microSD card holder.
5. Put back the battery, as described in the section *Inserting Battery Pack*.

2.4.3 Connecting to Power Supply

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



Caution Use only the AC adapter included with your device. Using other AC adapters may damage the mobile computer and the Battery.



Caution For users start up the mobile computer for the first time with internal battery power, please make sure the battery is fully charged before using.

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

1. Open I/O protective cover by pulling out the latch.
2. Plug the power adapter into the DC Jack port of the device.
3. Plug the power cord into the electrical outlet.



2.4.4 Charging the Battery

Caution

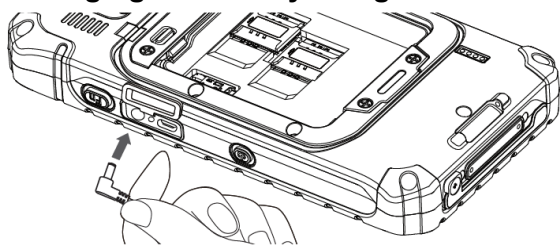


- The lithium battery used in this tablet may swell after being charged/ discharged many times, but there is no problem regarding safety.
- Continued use in such a state may result in the battery getting jammed, so please stop using the battery, and purchase a new one.

Please charge the battery before using the device for the first time. Charge the battery until the LED indicator turns solid green. To charge the E500RM9, use a cable or a docking with appropriate power supply.

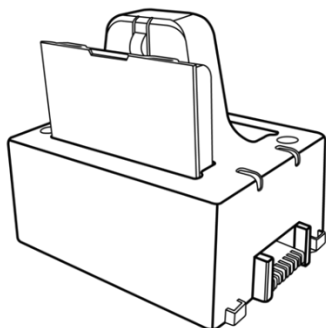
LED Status	Indicator
Off	The device is not charging or not properly connected
Solid Red 	Battery charged 0~89%.
Solid Green 	Battery charged 90~100%.

2.4.4.1 Charging the battery using DC Jack Cable



1. Connect the power supply output connector to the input power port on the DC Jack cable.
2. Remove the protective rubber and connect the DC Jack cable to the side of E500RM9. The battery charge LED indicates the battery charging status.

2.4.4.2 Charging the battery using Battery Charger



Connect the battery charger dock to power, insert the battery into the slot to begin charging.

This docking provides input: 12V/36W DC in.

2.5 Turning On and Off the Device

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

2.5.1 Turning On

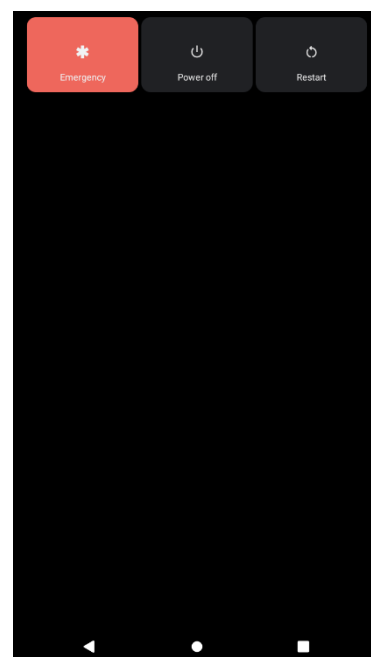
1. Press and hold the power button for **3 seconds**, located on the right side of the unit.
2. When the device vibrates, release the power button.
3. The desktop screen is displayed.



Note: For power saving purpose, please enable Connect to PC in Accessibility settings. When connected to PC external WWAN and USB on Docking will be disabled.



2.5.2 Turning Off

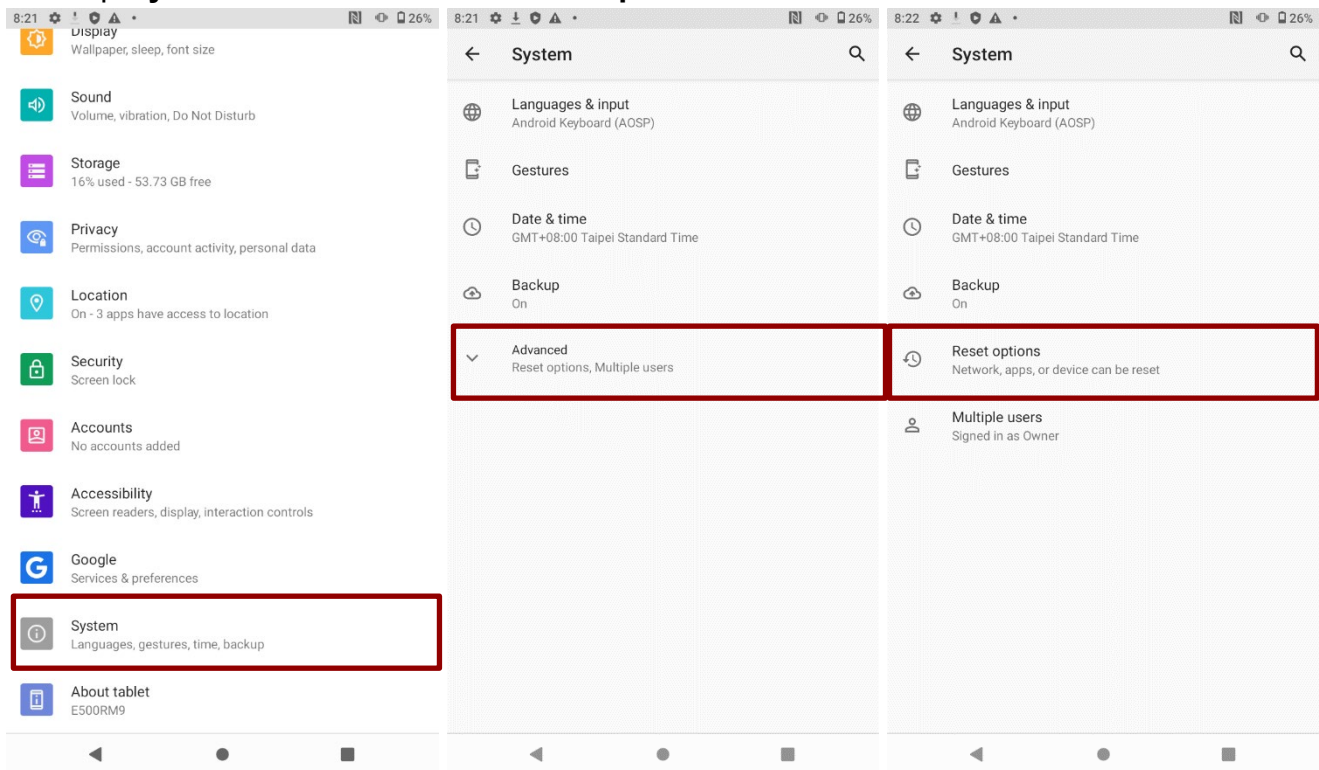
1. To turn off the device, press and hold the power button until the phone options menu appears, tap the **Power Off**.
2. User can also use the Phone options menu to put the device into emergency mode and restart.



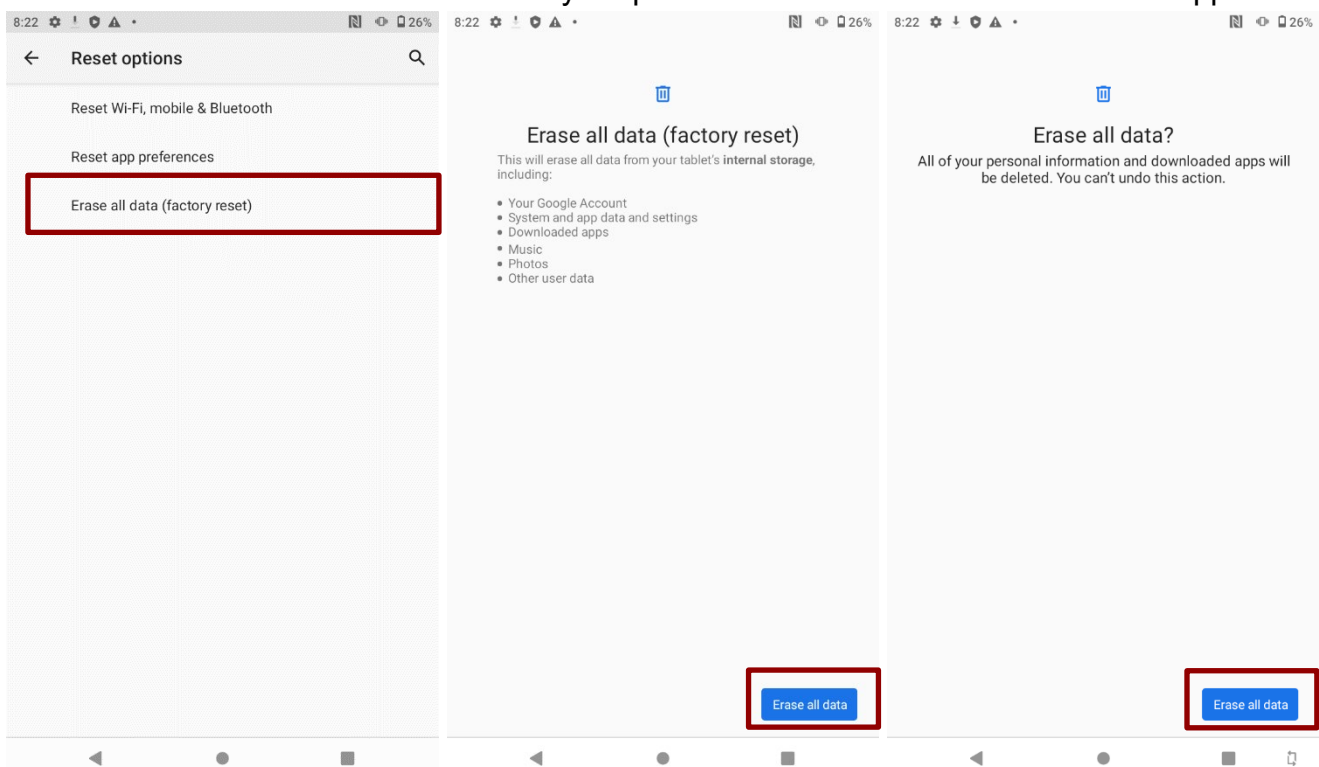
2.6 Resetting to Factory Defaults

To reset the device to factory defaults:

1. Slide from the bottom side, then open **Settings**  app.
2. Tap **System**  > **Advanced** > **Reset options**.



3. Tap **Erase all data (factory reset)** to reset the tablet.
4. Read all the available information and then press **Erase all data** to delete all the data in storage such as music or photo.
5. Press **Erase all data** to remove all your personal information and downloaded apps.









Chapter 3: Using the Device

This chapter explains how to use the buttons, status icons, and controls of the E500RM9 mobile computer running on Android 11.0 operating system and provides instructions on entering and capturing data.

3.1 Using the Touch Screen

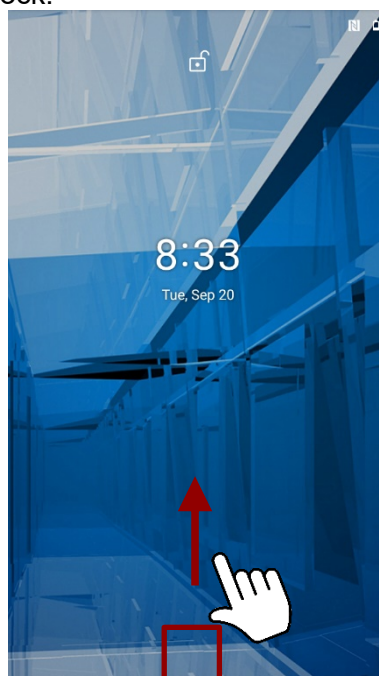
The touchscreen supports the core gestures for Android.

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 responds
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

3.2 Waking Up the Phone

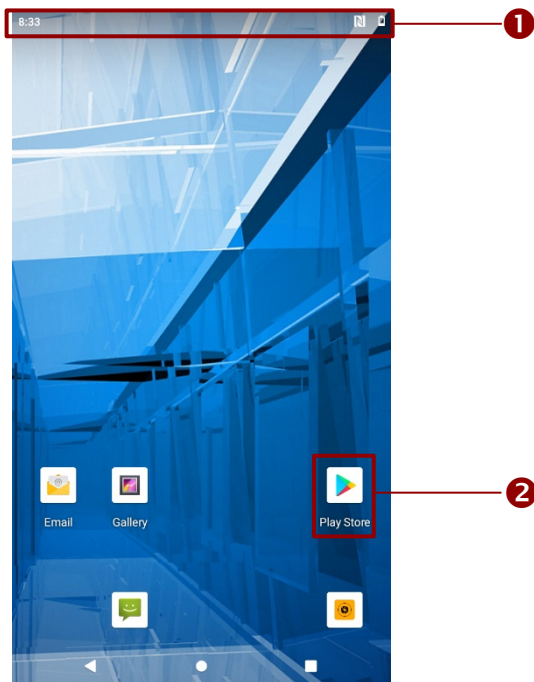
If you do not use the device for a while, the screen dims and then darkens to conserve the Battery. To wake up the device:

1. Press the Power button on the right side of the device.
2. Drag the screen upwards to unlock.



3.3 Using the Home Screen

Home screen is the starting point to access all the features on your mobile computer. It displays application icons, widgets, shortcuts, and other features. User can personalize the home screen.



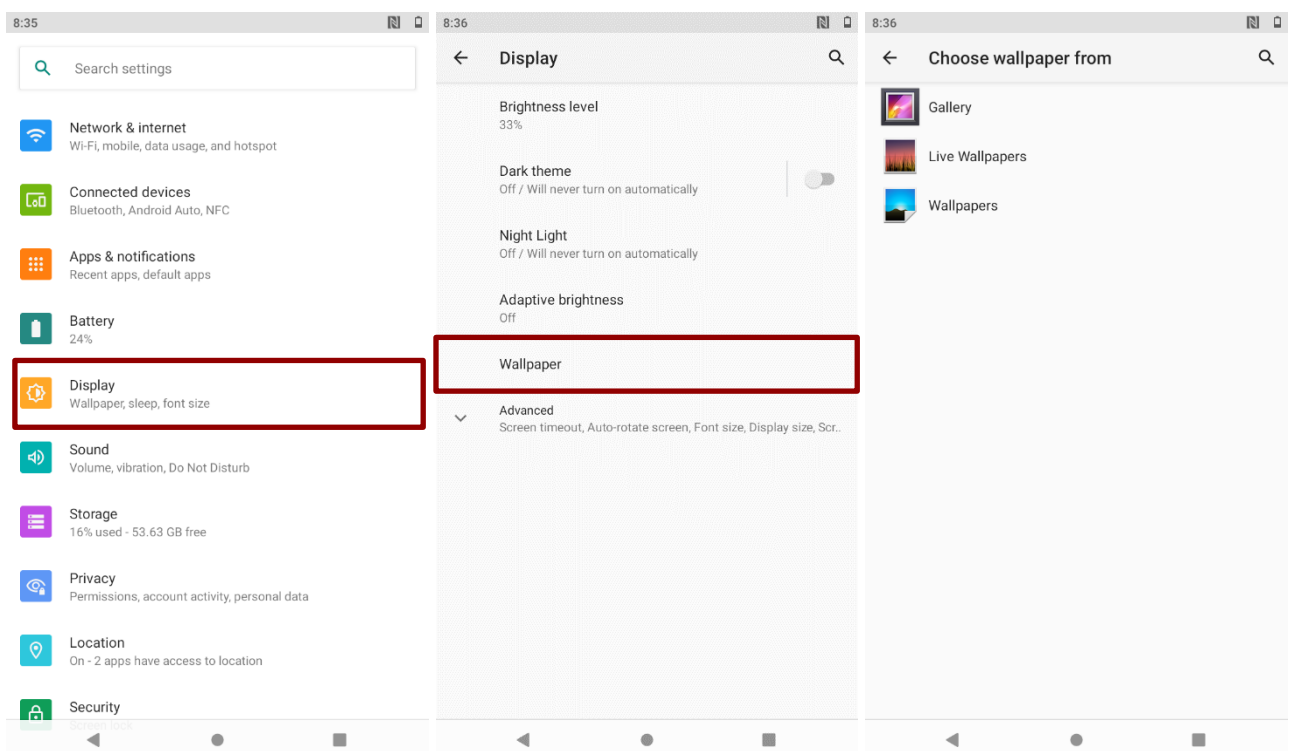
1. **Status Bar** shows the time, signal strength, battery status, and other information. It also displays notification icons.
2. **Applications**, user can use directly on the home screen.

3.3.1 Personalizing Home Screen

User can add application icons, shortcuts, widgets, and other items to the empty part of the Home screen, or switch the wallpaper.

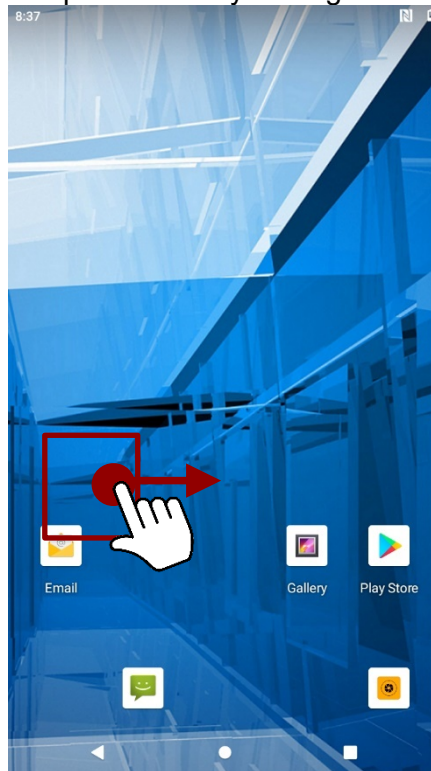
To change wallpaper on the HOME SCREEN:

1. Swipe from the bottom of the main desktop, tap **Settings** ⚙️ > **Display** > **Wallpaper**.
2. In the Wallpaper menu select the location of wallpaper, and then tap the type of item you want to add.

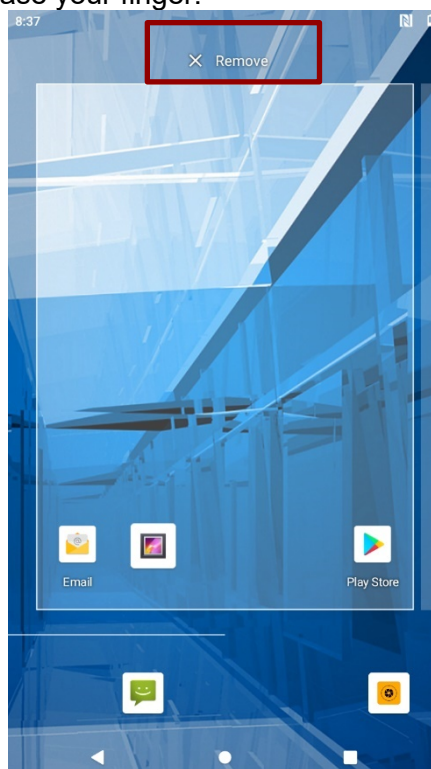


To move an item on the HOME SCREEN:

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.

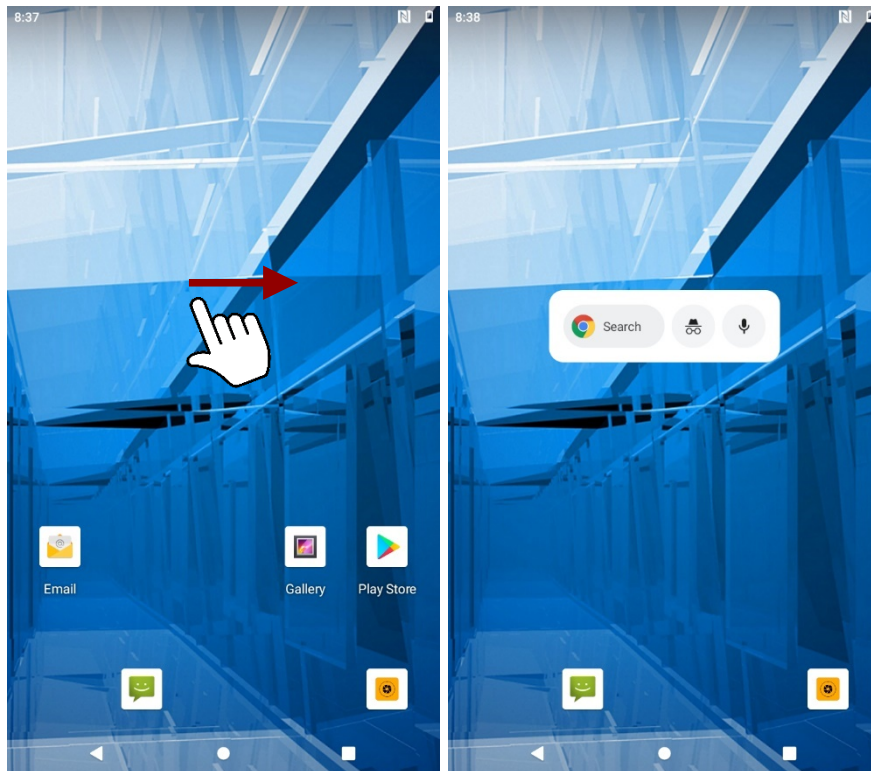
**To remove items from the HOME SCREEN:**

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

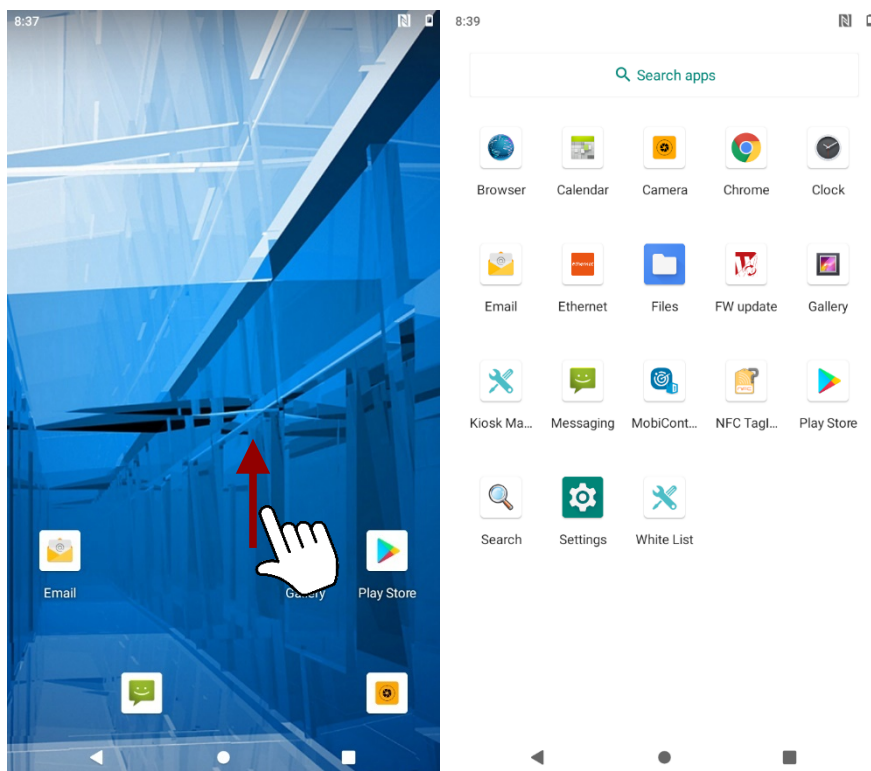


3.3.2 Viewing other parts of the Home Screen

1. Slide your finger left or right across the Home screen. Extensions to the Home screen provide extra space for APPS, shortcuts, and other items.



2. Swipe from the bottom of the main desktop to view the entire installed Applications in the device.
















3.4 Status and Notification Icons

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

3.4.1 Notification Icons























Pull down from the left top of the screen to get the notifications area. 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		

3.4.2 Status Icons

Pull down from the right top of the screen to get the notifications area. The following icons indicate the status of your device, for example if users are connected to a WLAN network that is not connected to the internet, the network icons are appears in white color.


Status icons that appear in the status bar are as follows:

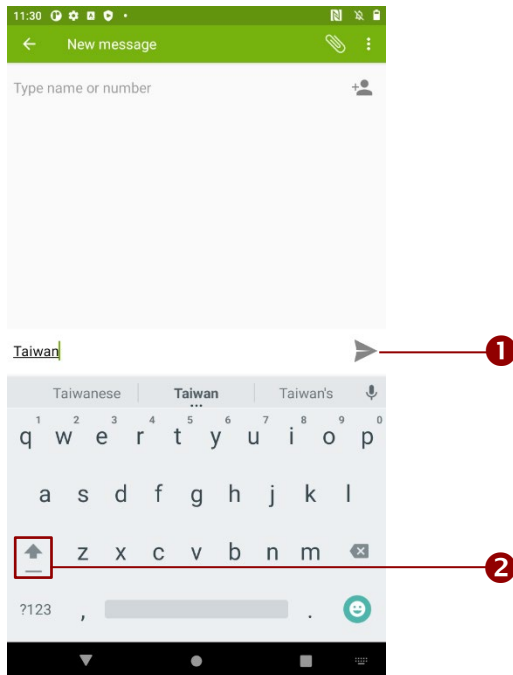
	Connected to GPRS mobile network		Bluetooth is on
	Connected to 1xRTT mobile network		Connected to a Bluetooth device
	Connected to EDGE mobile network		No SIM card installed
	Connected to 3G mobile network		Vibrate mode
	Connected to 4G mobile network		Ringer is silenced
	Mobile network signal strength		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

3.5 Using the On-Screen Keyboard

User can 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.

3.5.1 Entering Text

1. Open a text field, in this example we used Messaging  to compose a message. The On-Screen Keyboard opens.






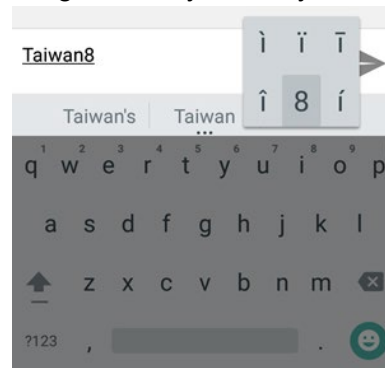
1. Tap a suggestion to enter it in the place of the underlined.
2. Tap once to capitalize the alphabet.



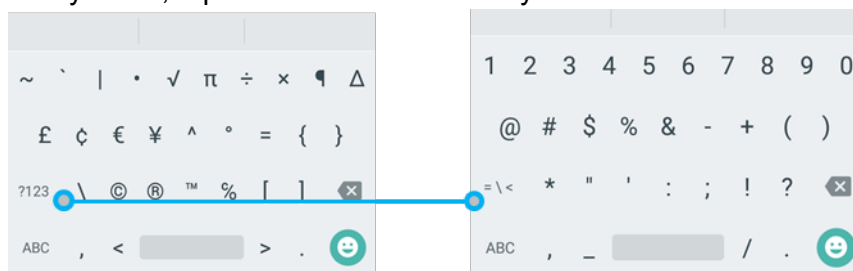
Note:


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.

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.




5. To view additional symbols, tap  on the numeric keyboard.

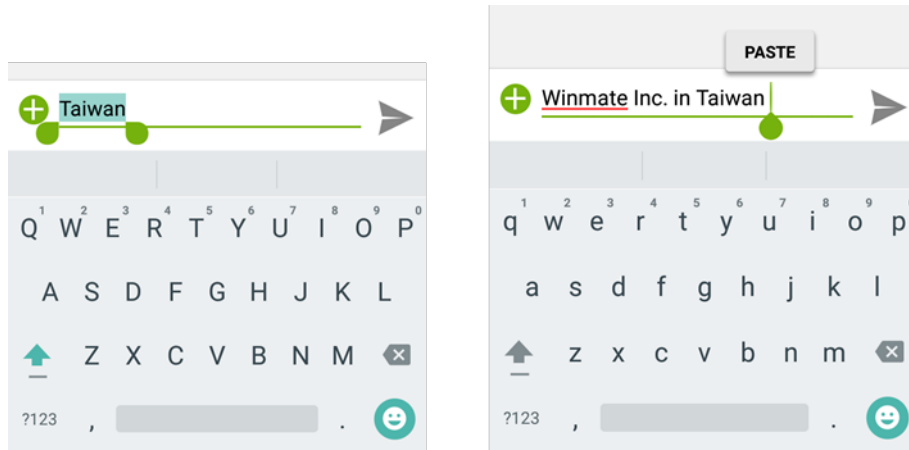


6. To close the On-Screen keyboard, press the back button .

3.5.2 Editing Text

To select text:

1. Double-tap the text you want to select.
2. Tap  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.

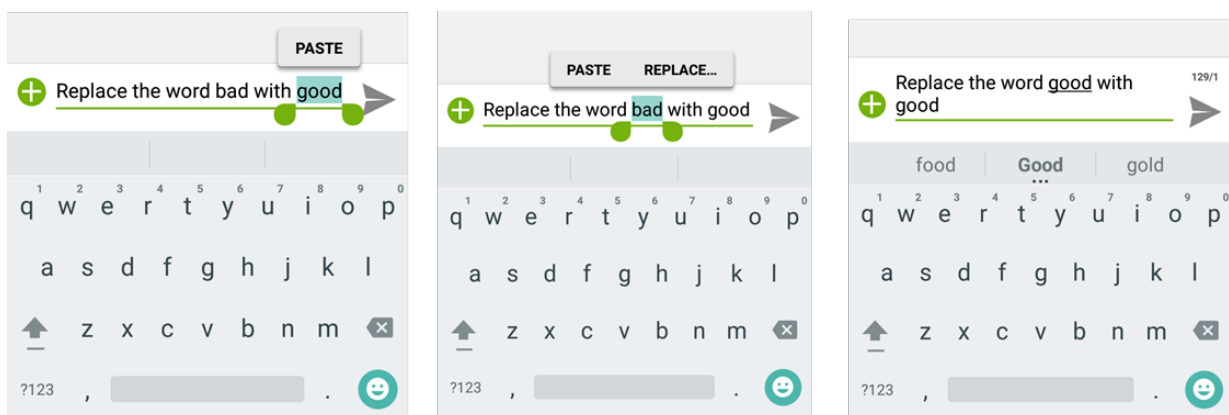


To Cut or Copy Text:

1. Select the text to cut or copy, see the section above [“To select text”](#).
2. Tap **Cut** or **Copy** in the Edit text menu.
3. If you select **Cut**, 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:

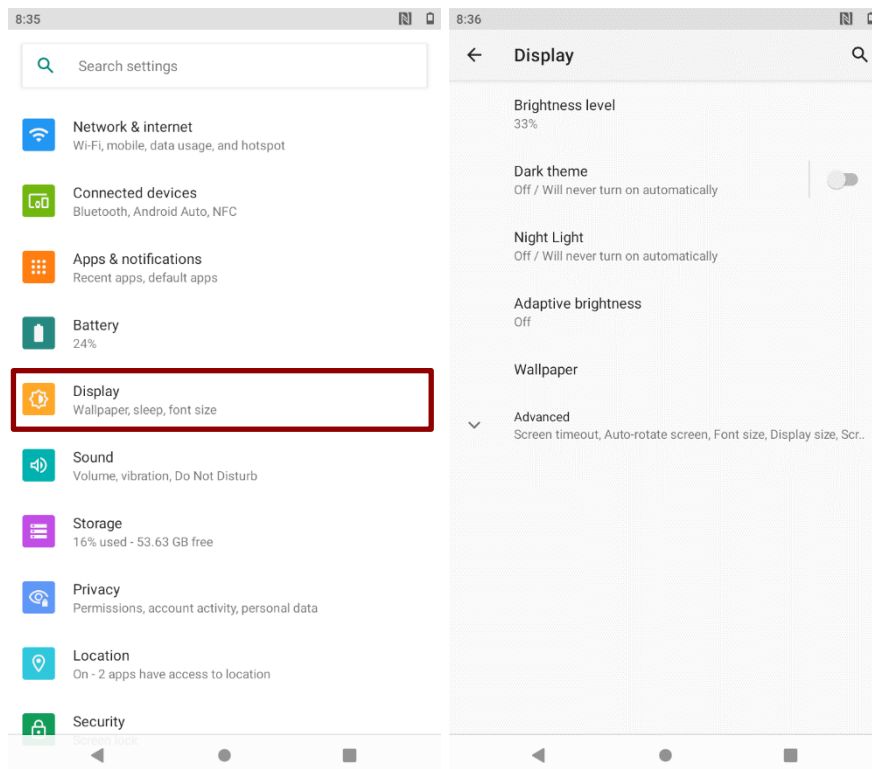
1. After Cut or Copy the text, see the section above [“To Cut or Copy Text”](#).
2. Place the cursor in the text field where you want to paste the text, user can paste text that you copied from one application into a text field in any application.
3. Tap and hold into the location that you want to paste.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



3.6 Display Settings

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

1. Swipe from the bottom of the main desktop, tap **Settings** , and then tap **Display** .



Display

- **Brightness level** – for adjusting the brightness of the screen.
- **Dark theme** – uses black background to help keep battery alive longer on some screens.
- **Night light** – tints your screen amber. This makes it easier to look at your screen or read in dim light.
- **Adaptive brightness** – to optimize brightness level for available light
- **Wallpaper** – to select wallpaper
- **Screen timeout** – to set up the device's sleep mode after the specified period of inactivity
- **Auto-rotate screen** – for switching the orientation of the screen when user turns the device sideways or upright.
- **Font size** – Make the text on screen smaller or larger
- **Display size** – Make the items on your screen smaller or larger. Some apps on your screen may change position.
- **Screen saver** – to control what happens when the mobile computer is docked and/or sleeping, turn screen saver on
- **Lock screen** – to control all notification content





Note:

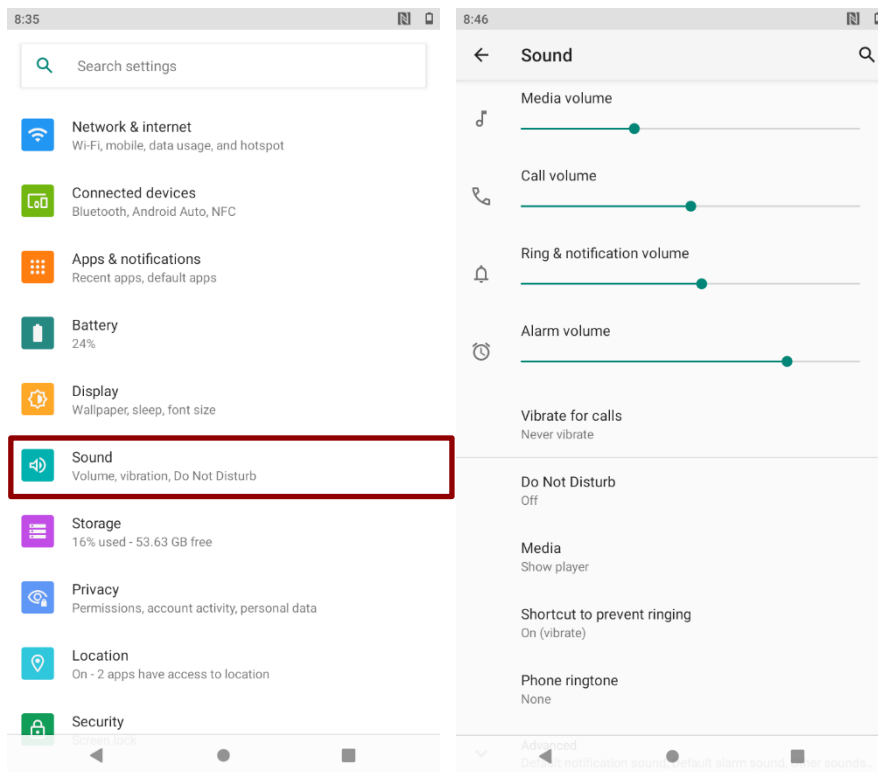
For the longest battery life between charges, use the shortest Sleep time.

3.7 Audio Profile Settings

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

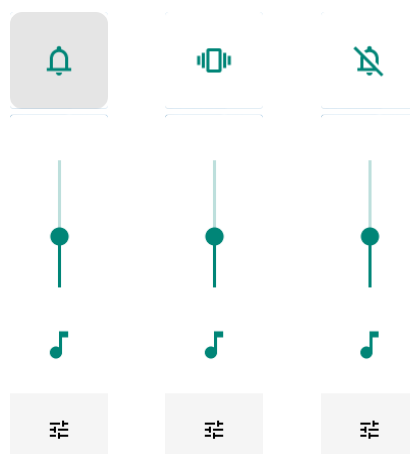
3.7.1 Sound Settings

1. Swipe from the bottom of the main desktop, tap **Settings** , and then tap **Sound** .
2. In the **Sound** user can select Media volume, Call volume, ring volume, alarm volume and other sound settings.



3.7.2 Adjusting Volume

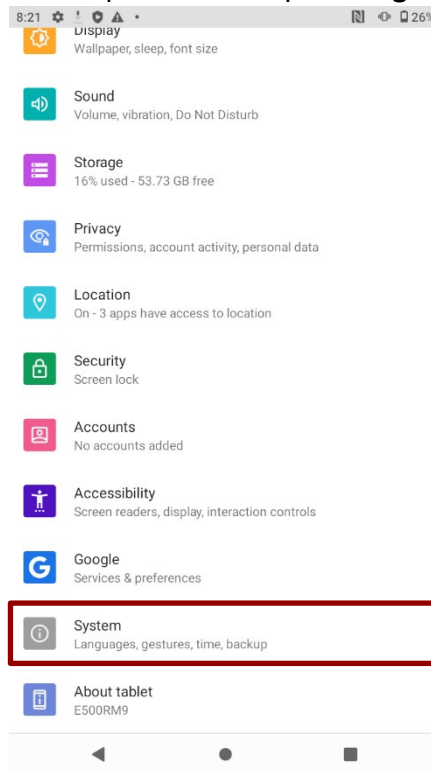
1. Press the volume keys to change the ring volume (On Home screen) or front receiver volume (during a call).
2. Press the volume key to set up Vibration mode.
3. Press the volume key to set up Mute mode.



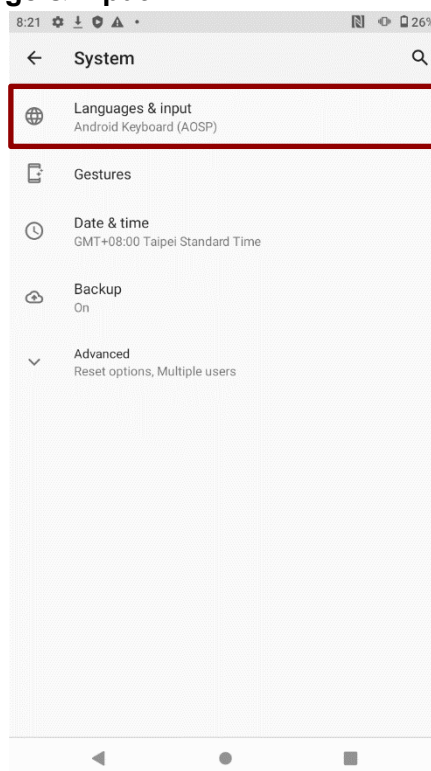
3.8 Language and Keyboard Settings

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

1. Swipe from the bottom of the main desktop, and then tap **Settings**  > **System** .

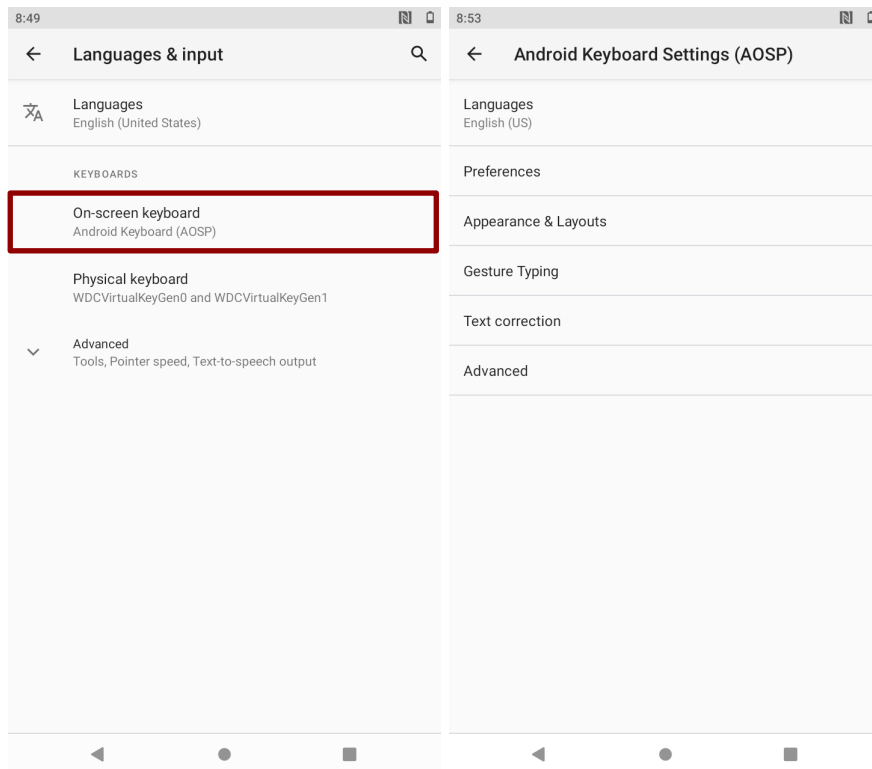


2. In the **System** tab, select **Language & Input**.



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

3. Click the **On-screen keyboard** to go to the Android Keyboard Settings (AOSP) page.



- **Keyboard & input methods**
 - **On-screen Keyboard** – shows default Android Keyboard (AOSP).
 - **Physical Keyboard** – allows the user to apply physical keyboard settings if connected.
- **Appearance & layouts**
 - **Theme** – to select the theme of layout.
 - **Custom input styles** – user can select custom input style, such as QWERTY keyboard.
 - **Enable split keyboard** – toggle to activate split keyboard layout.
- **Text Correction**
 - **Personal dictionaries**
 - **Add-on dictionaries**
 - **Block offensive words** – disable suggesting potentially offensive words
 - **Auto-correction** – spacebar and punctuation automatically correct mistyped words.
 - **Show correction suggestions** – display suggested words while typing.
 - **Personalized suggestions** – learn from your communications and typed data to improve suggestions.
 - **Suggest contact names** – use names from Contacts for suggestions and corrections.
 - **Next-word suggestion** – use previous word in making suggestion.
- **Advanced**
 - **Keypress vibration duration**
 - **Keypress sound volume**
 - **Key long press delay**
 - **Emoji for physical keyboard**
 - **Show app icon**

Changing the Keyboard Language



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

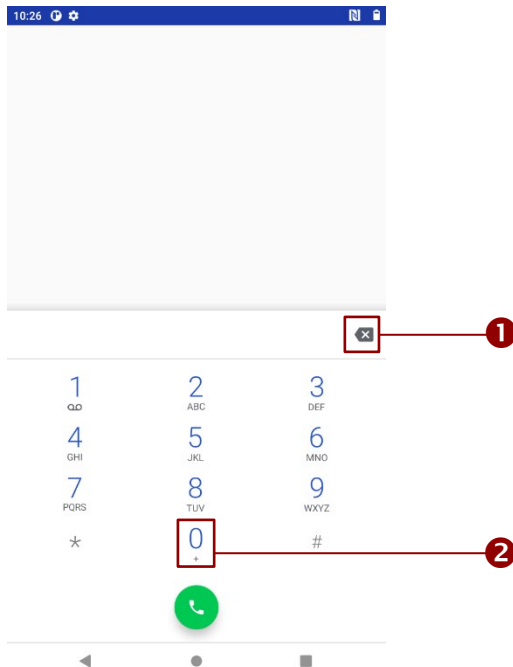
1. Tap and hold the space key
2. Without lifting the finger, slide it to the left or right until the language you want to use appears in the center of the small window above the Space Key.
3. Lift the finger to change the keyboard language.

3.9 Using the Phone

User can make a phone call by dialing a phone number; touch a number in the contact list, on the web pages or other places.



3.9.1 To Make a Phone Call

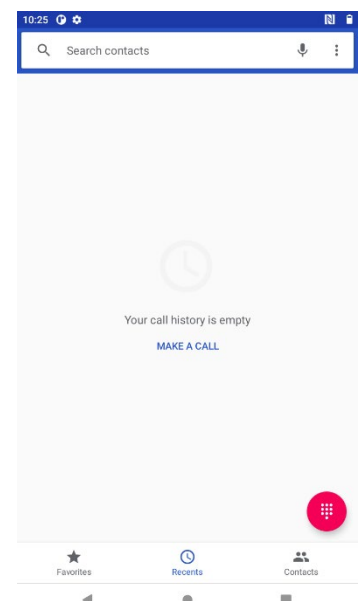
1. Please make sure the SIM card is properly installed.
2. Tap Phone icon  on the Home screen.
3. Tap the numeric keys on the screen to enter the phone number and then tap  to dial the number that you have entered.



1. If you enter a wrong number, tap this button to erase digits one by one. To erase the entire number, tap and hold this button.
2. Tap and hold to enter +.

3.9.2 To Make a Phone Call Using Contact List

1. Tap the launcher and then tap Contacts .
2. Tap the Phone icon  at the bottom of the Home screen, and then tap **Contacts**.
3. Select the required contact and then tap it to call.



3.9.3 Answering or Declining Calls

When user receive a phone call, the incoming call screen opens with the caller ID and any additional information about the caller that you have entered in contacts.




Tap to answer calls.

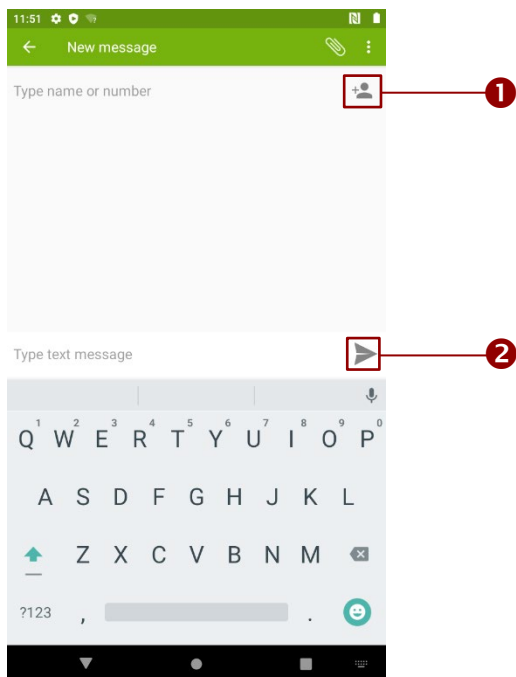


Tap to reject calls.

3.10 Messaging

3.10.1 Sending Text Messages

1. Swipe from the bottom of the main desktop, and then tap .
2. Tap **Compose new message** and enter a mobile phone number in the **To field**. You can tap to find your contact.
3. Tap the composition text box to start entering your message.



3. Tap this button to open the list of contacts.

4. Tap this button to send a message.

3.10.2 Opening and Responding to Text Messages

If you are working in a message window, message that you receive are display in it. Otherwise, you receive a new message notification and a new message icon appears in the status bar.

To reply a message

When user tap the new message notification, the message window opens and user can reply the message.

To forward a message

1. Tap & hold a message in a message window.
2. Tap **Forward** message in the menu that opens.
3. Enter a recipient for message and edit the content if necessary.
4. Tap **Send**.

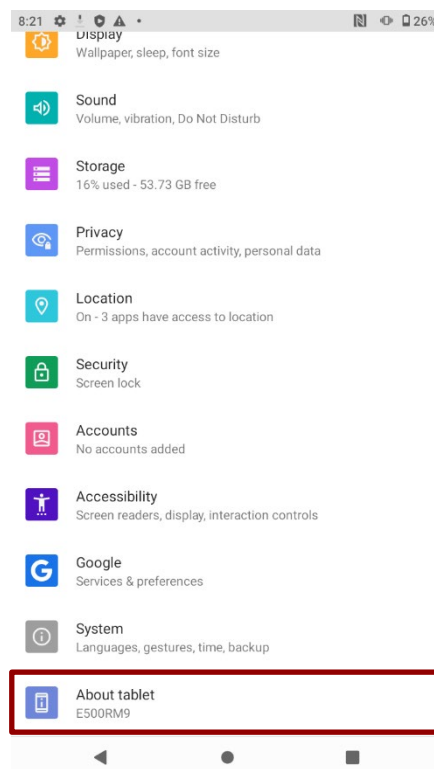
3.11 About Phone

About Phone includes information about user's device.

- **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.
- **Model number** – show the model's name of the current device.
- **Android version** – show the current Android operating system version.

To access the information about the phone:


1. Swipe from the bottom of the main desktop, tap **Settings** , tap **About Phone** .

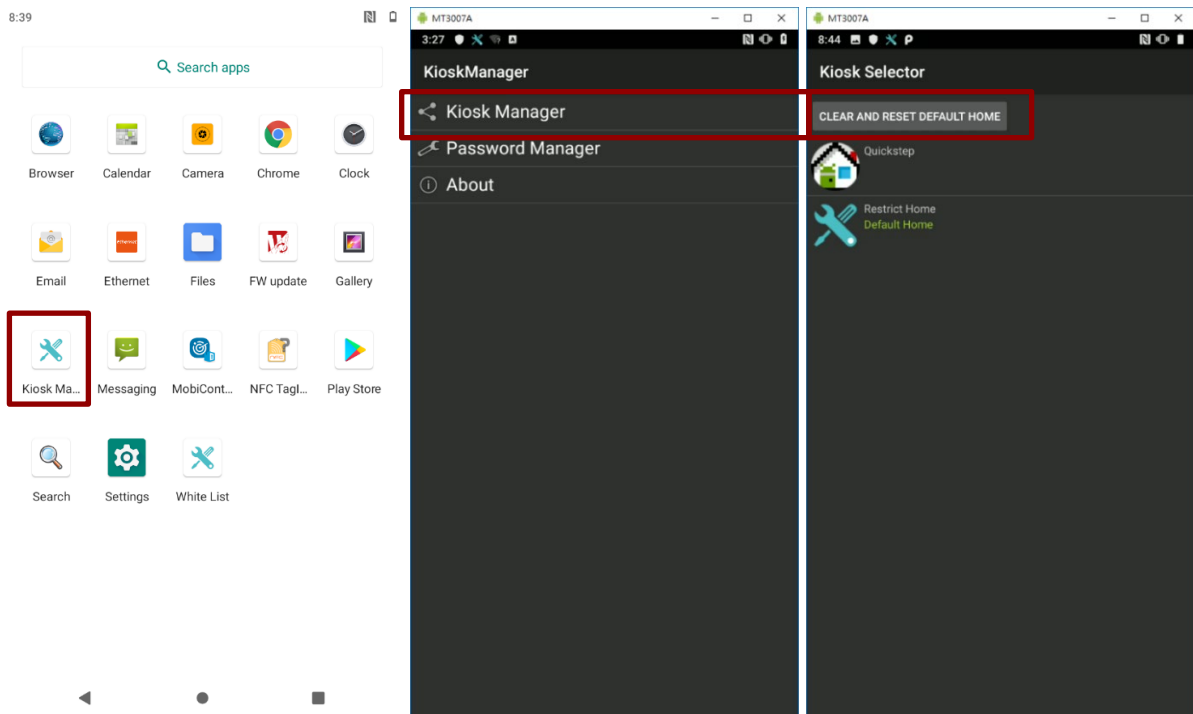


Chapter 4: Winmate Kiosk Manager

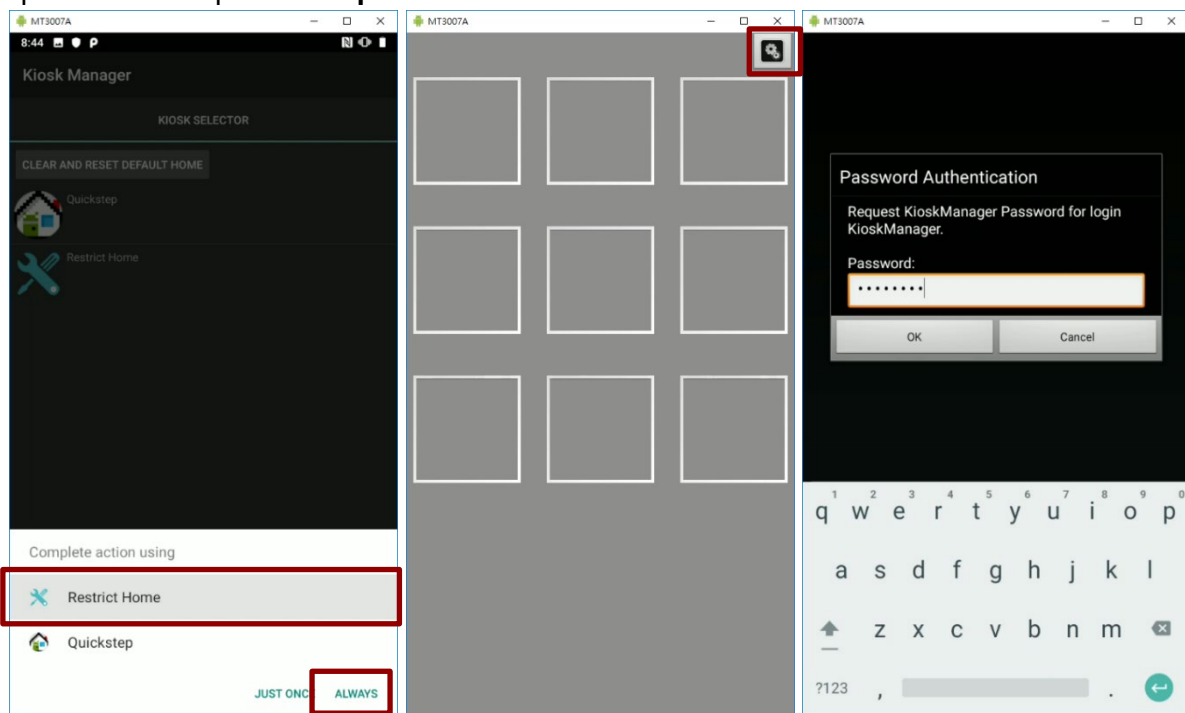
The E500RM9 rugged mobile computer comes with preinstalled APP named Winmate Kiosk Manager. This application lets the device manager to lock the launcher. When the launcher is locked the user can only use one application assigned by the device manager.

4.1 Lock Applications

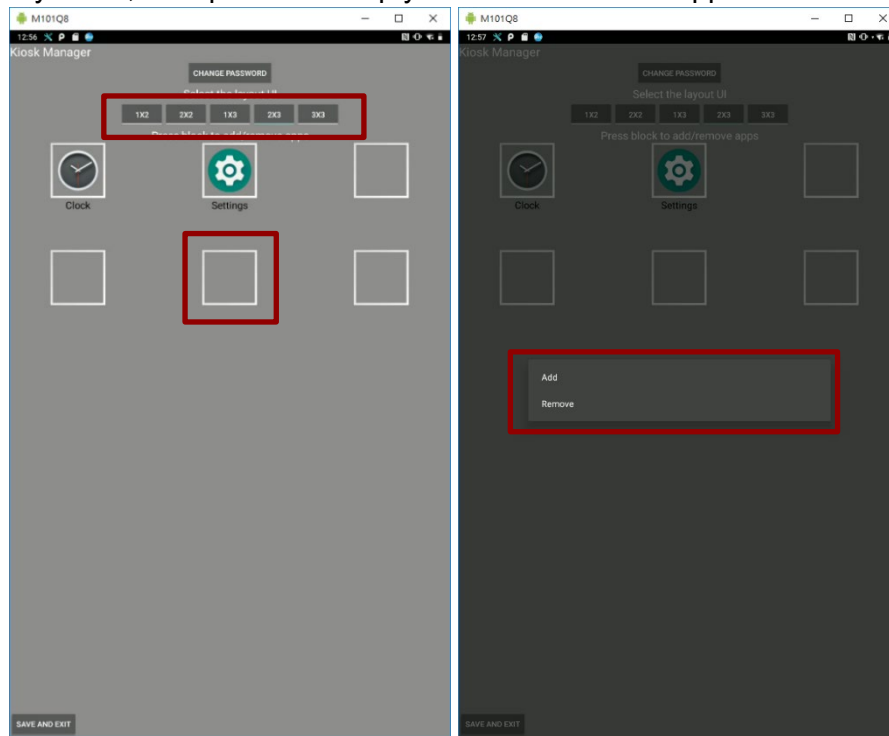
1. In the main APPS window, select the **Kiosk Manager** . Select **Kiosk Manager** to start your settings, or go to **Password Manager** and set your own password for this APP. The default password is “password”.
2. Press **Clear and Reset Default Home**.



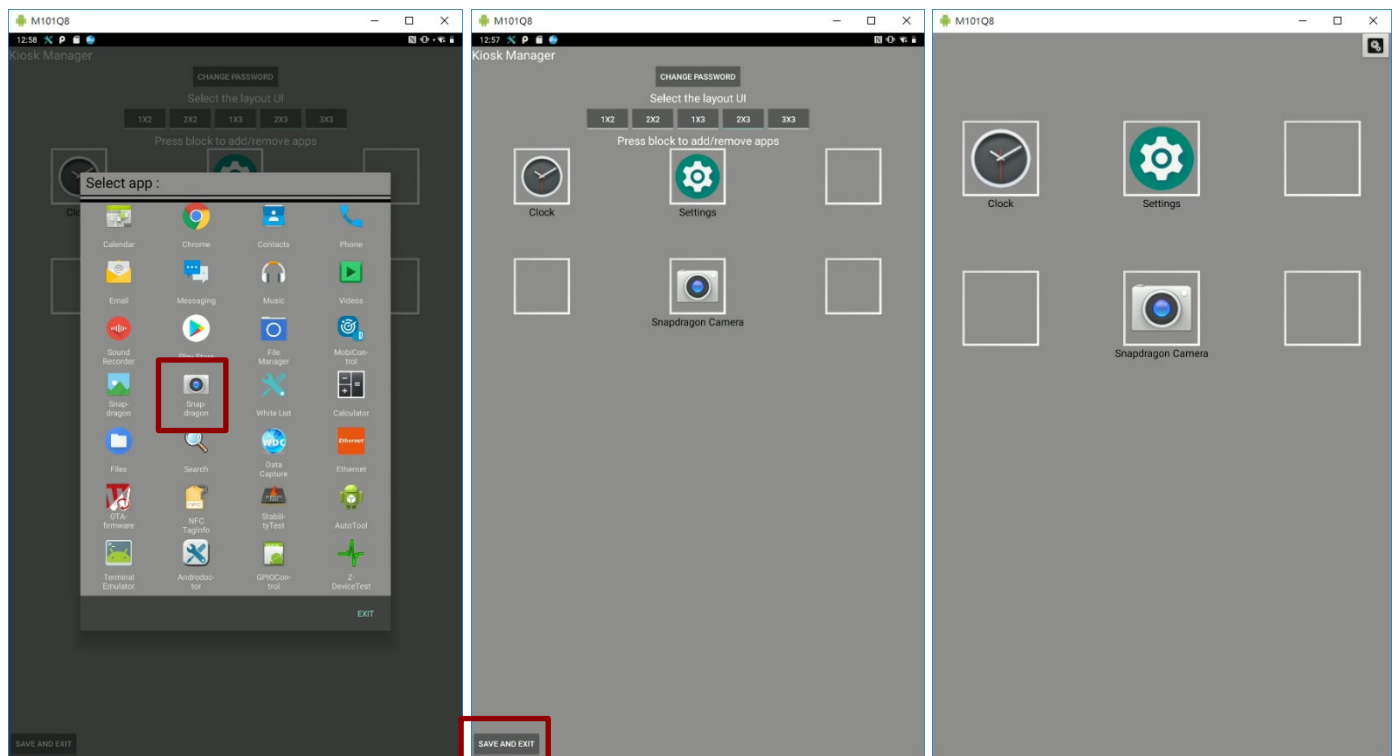
3. Select **Restrict Home** then **Always**. The system will automatically be locked on selected Apps.
4. Click the gear icon on the upper right corner. Then choose **Change UI**.
5. Input the default password: **password**




6. Choose the layout UI, then press the empty slot to add/remove apps. Click **Add App**.

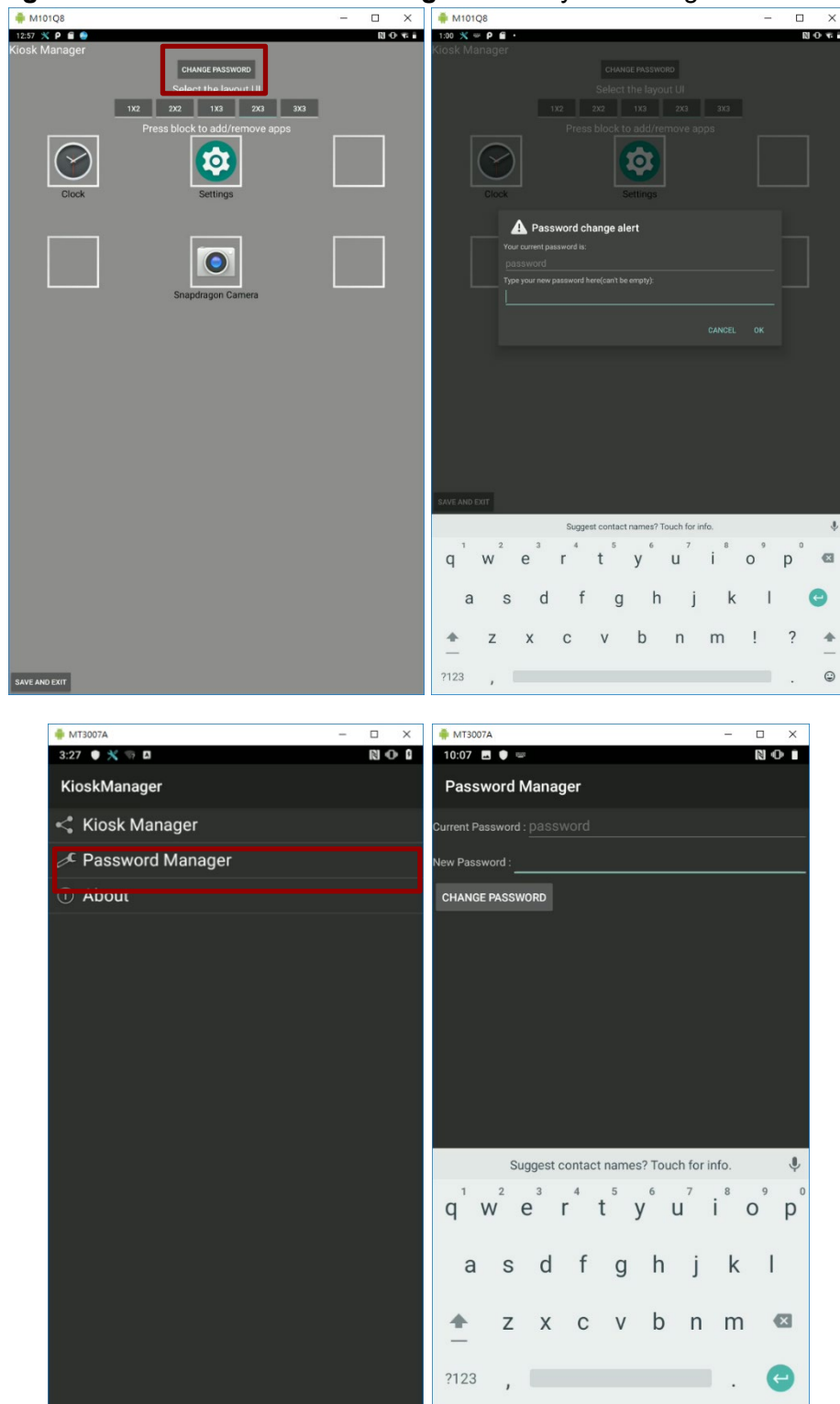


7. Select applications you want to lock. For example, **Camera**.
8. Click **SAVE AND EXIT**.



4.2 Change Password

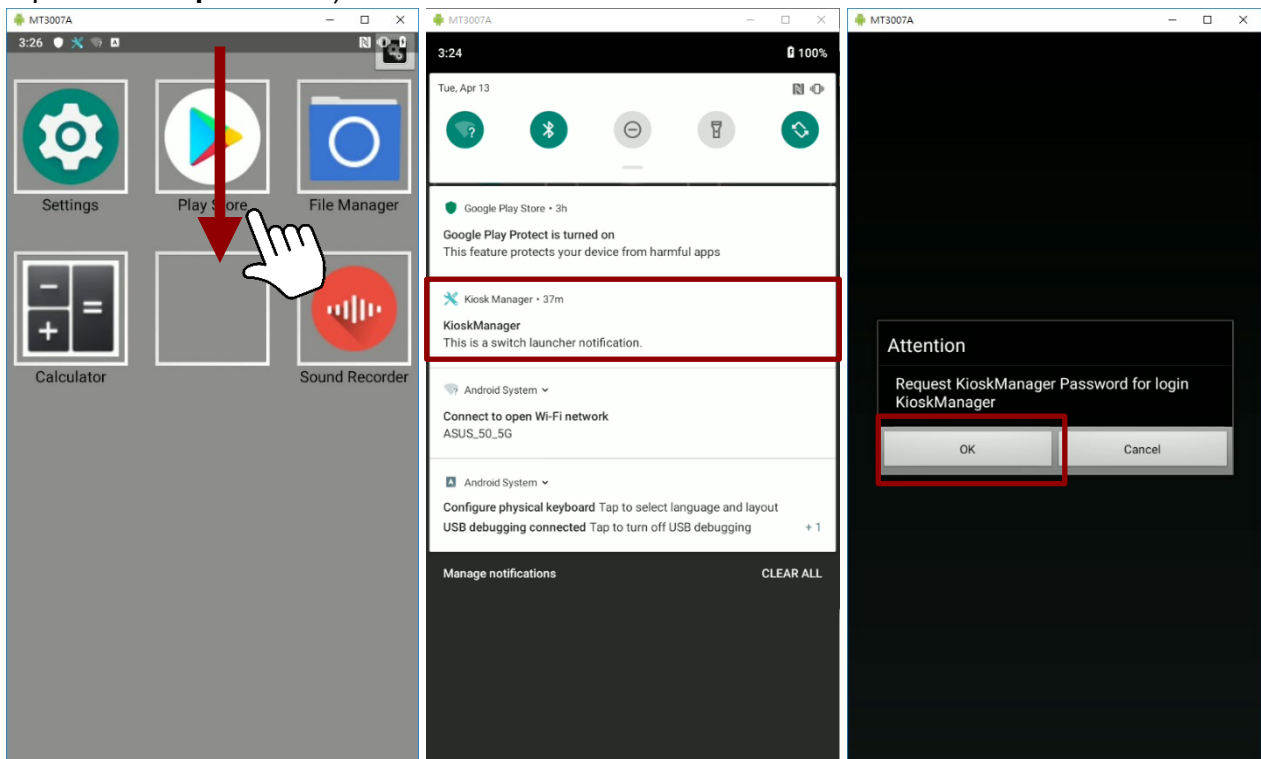
1. In the UI edit page, select the **CHANGE PASSWORD**. Or, in the main Apps window, select the **Kiosk Manager** . Select **Password Manager** to start your settings.



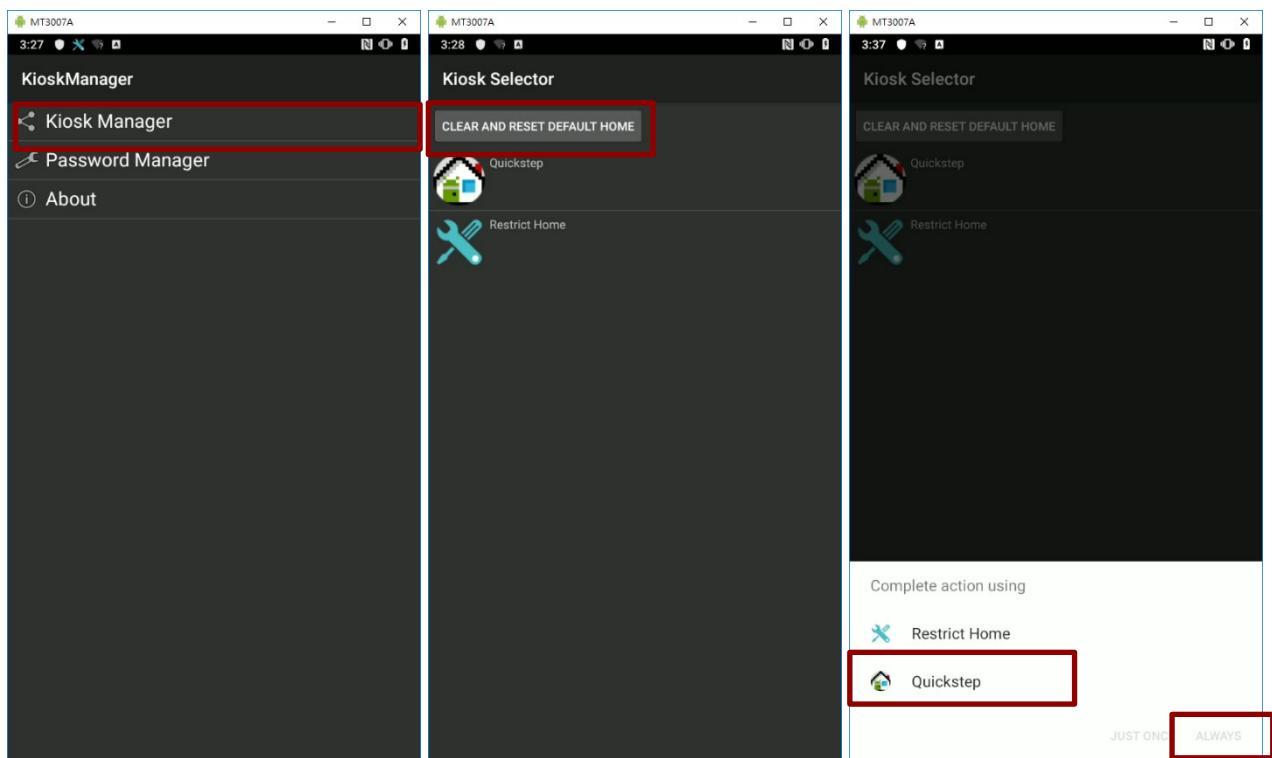
2. The default password is "**password**". Enter a new password in **New Password** field, and then tap **Change Password**.

4.3 Unlock Applications Launcher

1. Slide down the top bar and press **Kiosk Manager** icon. Enter the password to login (the default password is **password**). Press **Ok**.

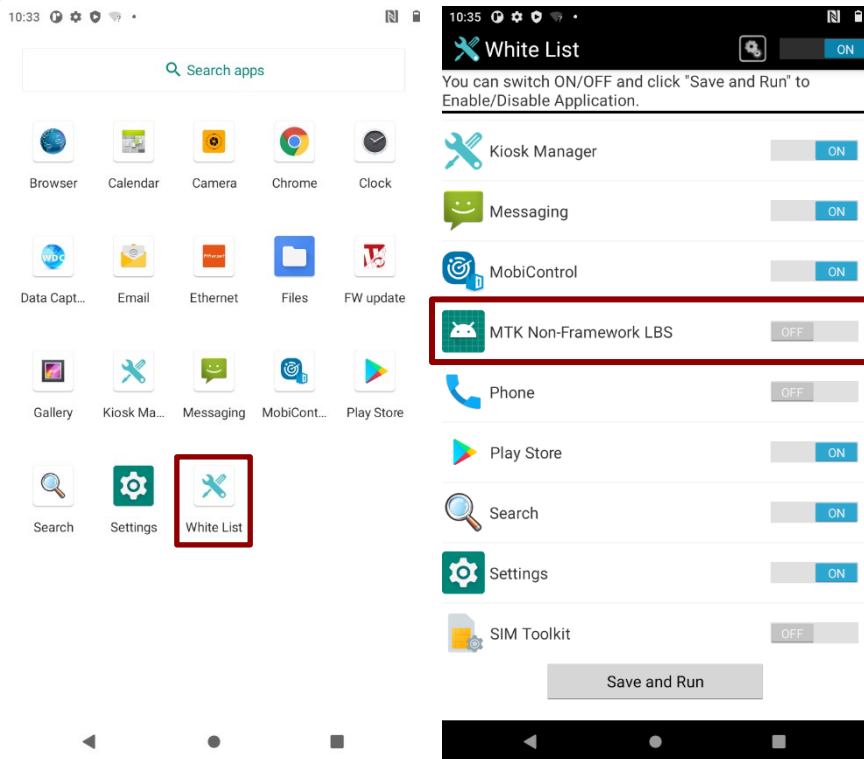



2. Click **Kiosk Manager**, then **Clear and Reset Default Home**.
3. Select **Quickstep**, and press **ALWAYS**.
4. Restart the system and you will go back to the normal Launcher.

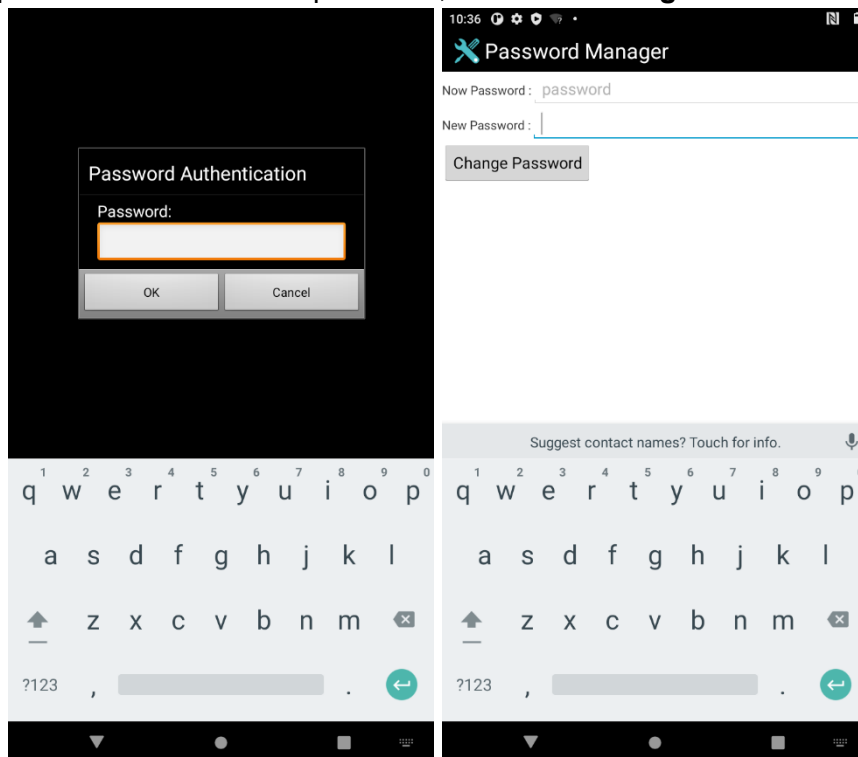


4.4 White List App

1. Open the **White List** .
2. Select an application of **White List**.

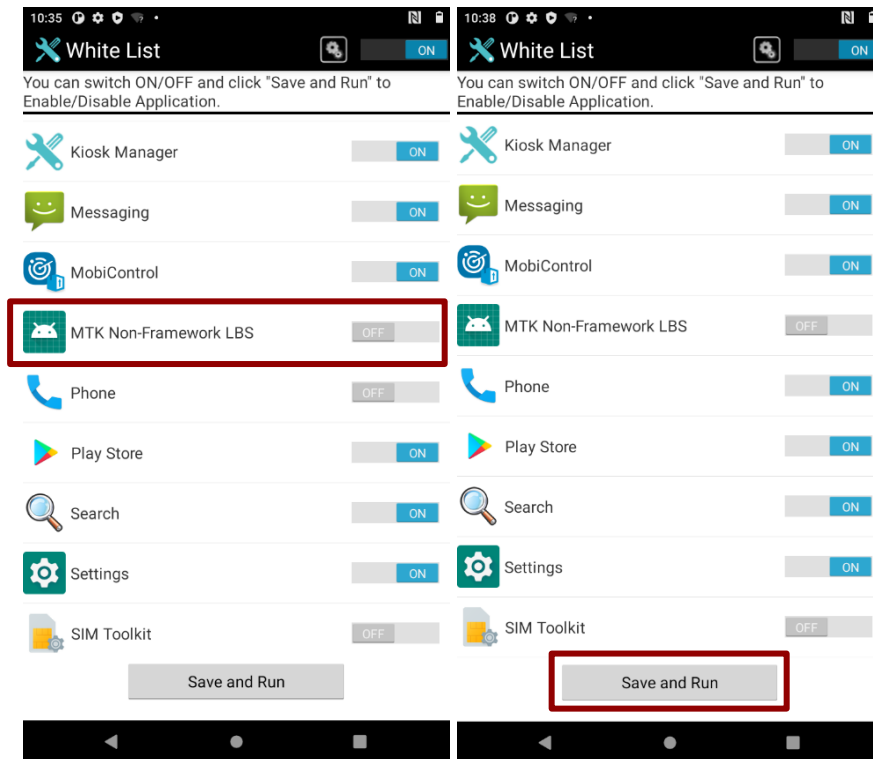


3. Enter the password. The password default value is **"password"**.
4. To change the password, click the setting icon  on the White List page, choose **Password Manager**. Input the current and new password, then click **Change Password**.



Disable or Enable Application:

1. Click list item to switch App Status
2. Click **Save and Run**.



Chapter 5: Networks and Wireless Devices

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


5.1 Connecting to Mobile Networks

When users install a SIM card from service provider to the E500RM9, the device is configured to use the provider's networks for voice calls and for transmitting data. Different locations may have different mobile networks available. User may need to configure E500RM9 to use certain networks.



Note:

The E500RM9 supports dual SIM cards. To obtain faster networks configure the phone to 4G/LTE. To extend the life of battery user can use 2G network.

1. Swipe from the bottom of the main desktop, tap **Settings** .
2. Tap **Network & Internet**, and then tap **Mobile networks**.
3. Tap **Mobile Data** to check the network connection.




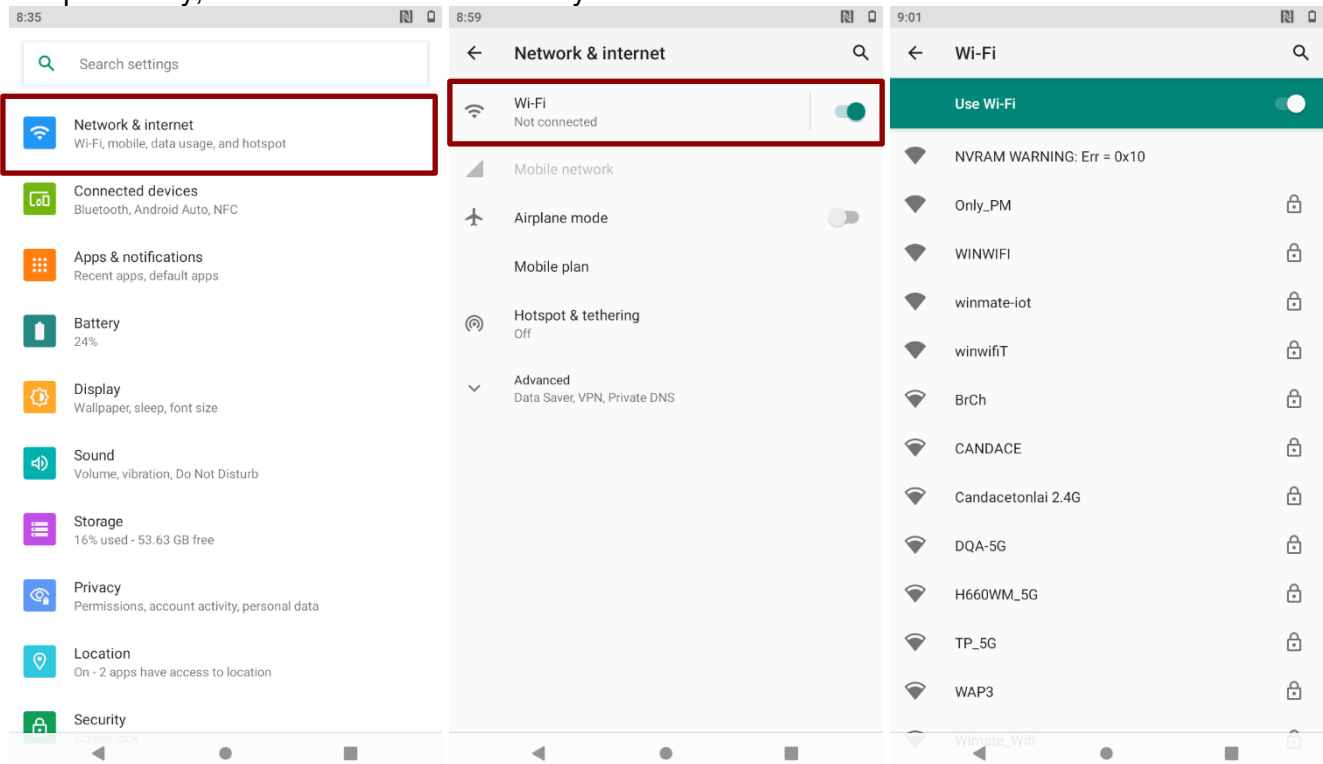
Important:

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

5.2 Connecting to WLAN Networks

5.2.1 Turning on WLAN and Connecting to WLAN Networks

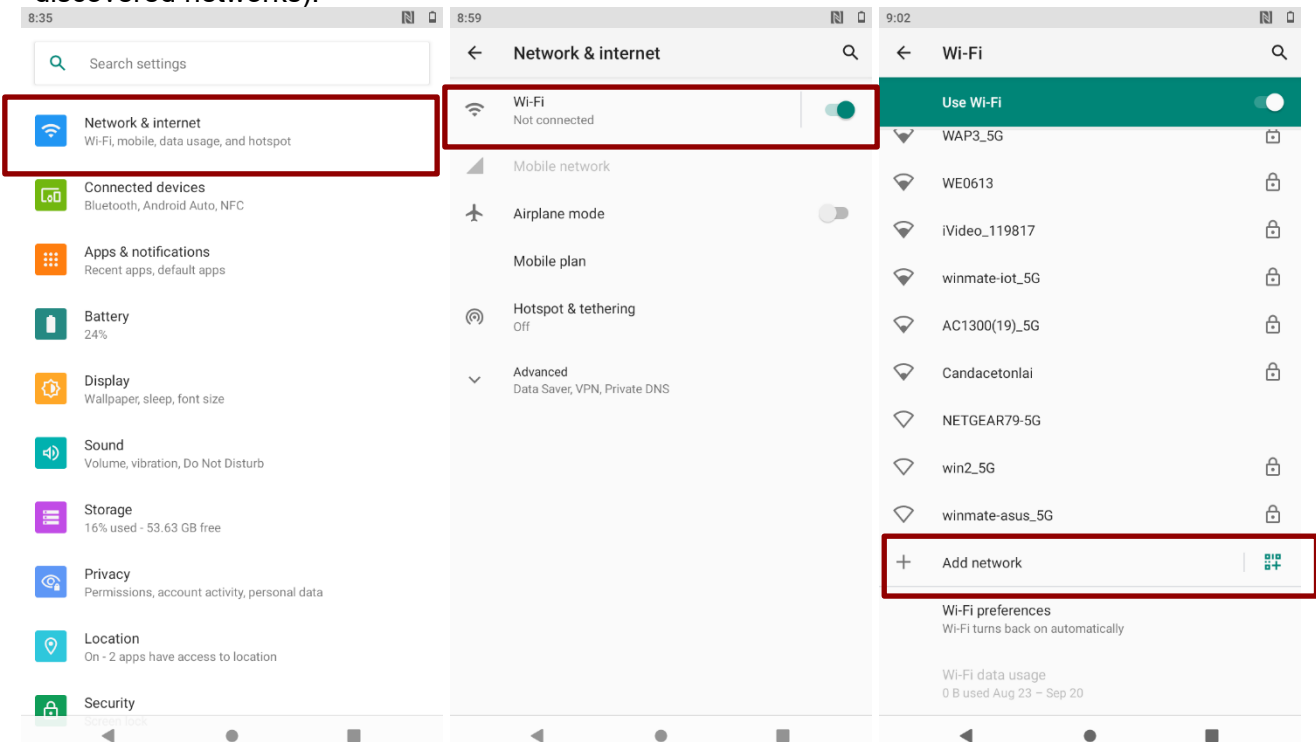
1. Swipe from the bottom of the main desktop, tap **Settings** .
2. Tap **Network & Internet** and then toggle the on/off switch on the top-right hand side to turn on the **WLAN**.
3. Tap **Wi-Fi**. The device scans for available WLAN networks and displays the list of it. Secured networks are indicated with a lock icon. If the tablet finds a network that you have connected previously, it connects to it automatically.



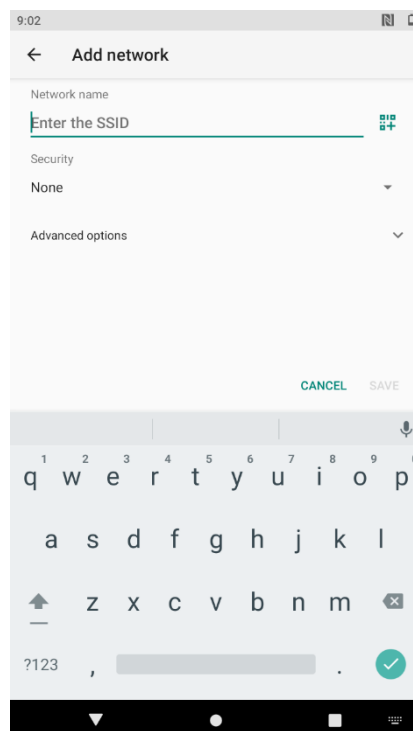
4. Tap a network to connect to it:
 - If the network is open, you are prompted to confirm that you want to connect it by tapping **Connect**.
 - If the network is secured, users are prompted to enter a password or other credentials.
5. To check the details about the speed, security, address, and related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

5.2.2 Adding WLAN Network

1. Turn on WLAN, in the WLAN settings screen, tap **+ Add network** (at the bottom of the list of discovered networks).



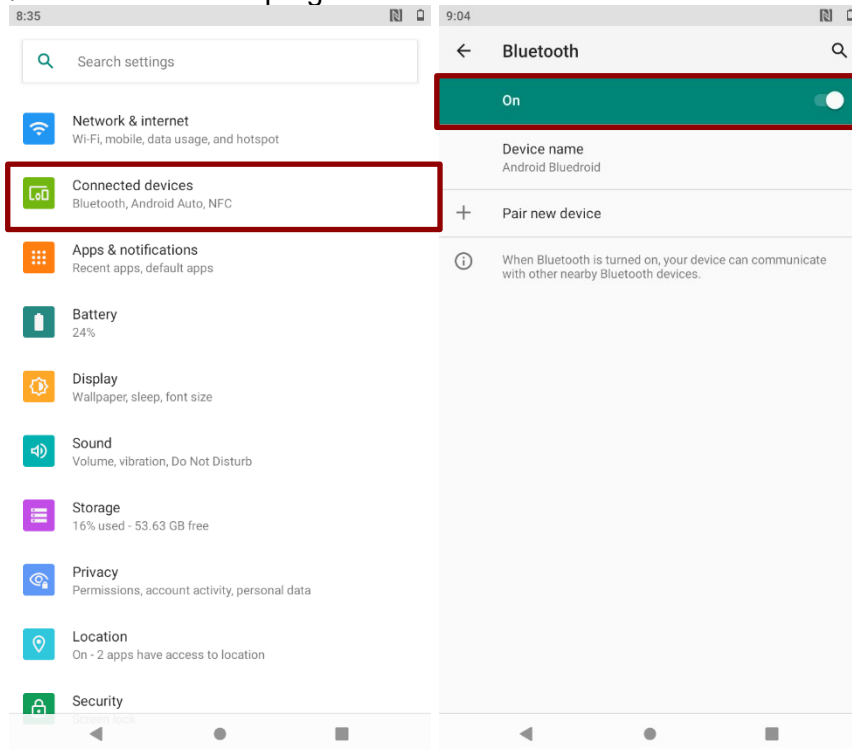
2. Input the SSID (name) of the network, if the network is secured, tap the security menu and then tap the type of security deployed on the network.
3. Enter any required security credentials.
4. Tap **Save**.



5.3 Connecting to BT Devices

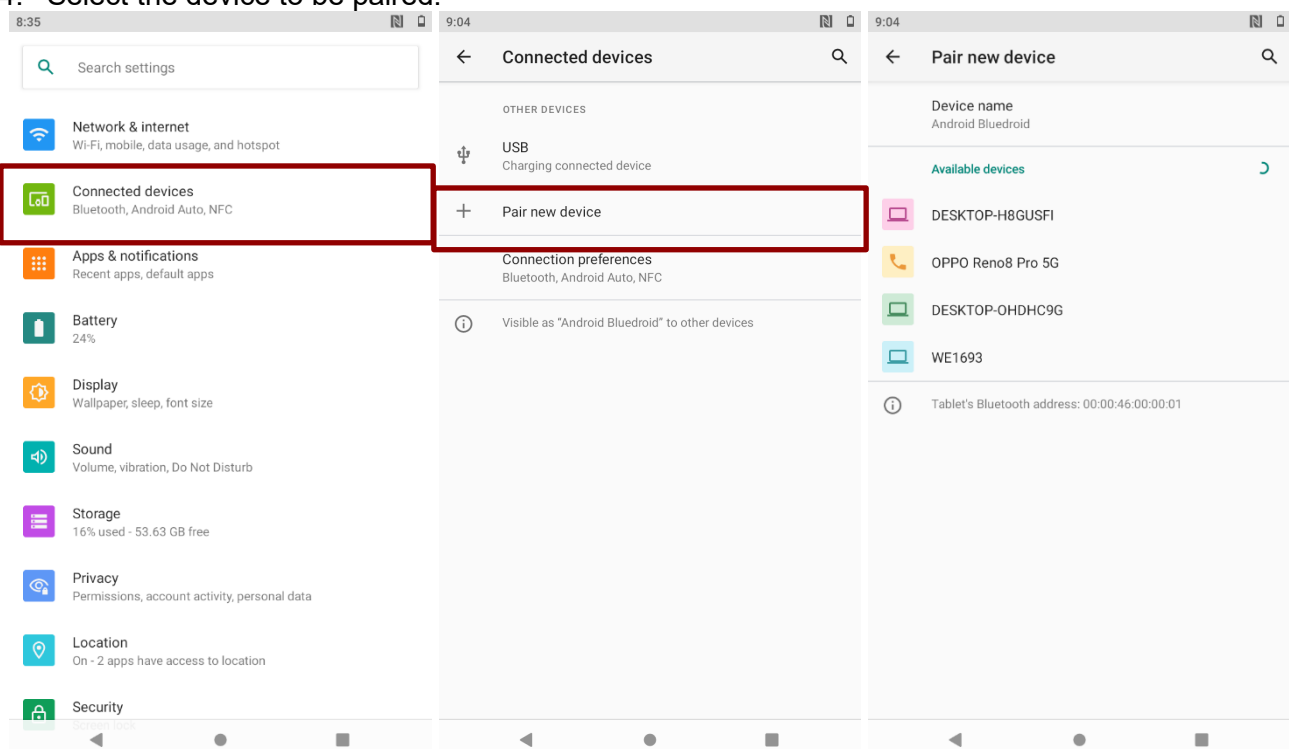
5.3.1 Turning BT On or Off

1. Swipe from the bottom of the main desktop, tap **Settings** ⚙️.
2. Tap **Connected Devices**.
3. Toggle the on/off switch on the top-right hand side to turn on the BT.



5.3.2 Connecting the BT Device

1. Swipe from the bottom of the main desktop, tap **Settings** ⚙️.
2. Tap **Connected Devices**.
3. Tap **Pair new device**. The system will automatically scan and display the IDs of all available BT device in range.
4. Select the device to be paired.



5.3.3 Disconnecting BT Device

1. Tap the device in the BT settings screen.
2. Tap **FORGET** to disconnect.

5.4 Connecting to Computer via USB

User can connect the mobile computer to a computer with USB cable to transfer file.

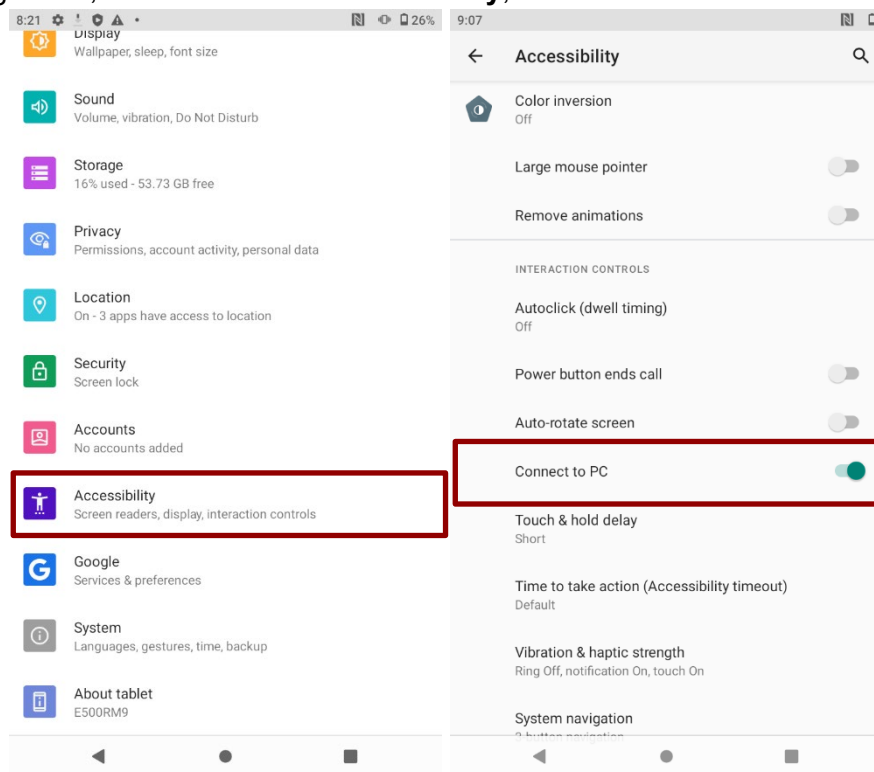
To allow device connection to PC: Click **Setting > Accessibility > enable Connect to PC**.



Important: When connecting your mobile computer 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. Notice that the E500RM9 mobile computer cannot be charged via USB.

5.4.1 USB Computer Connection

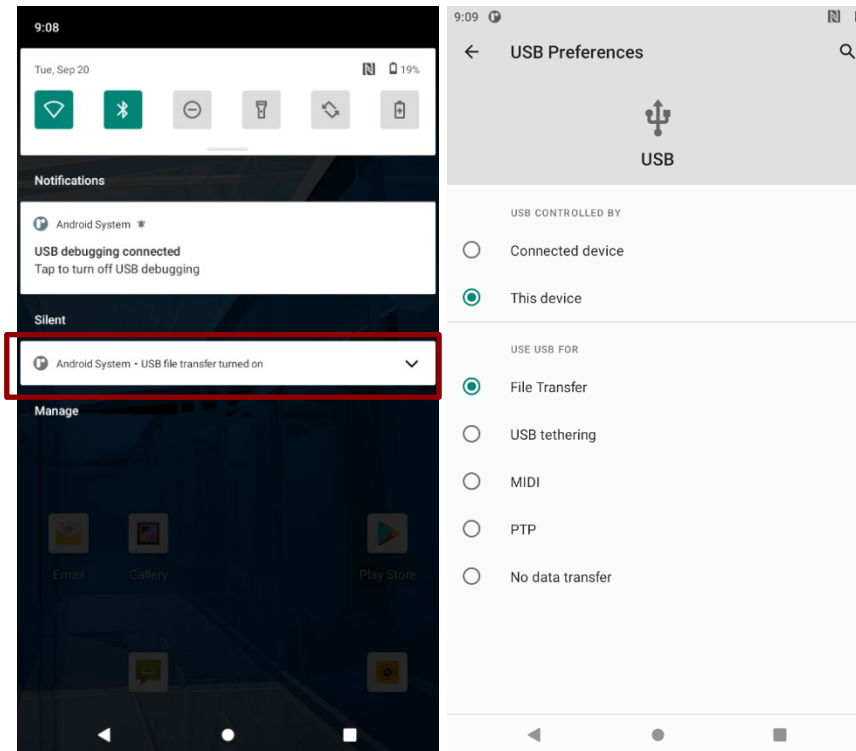
1. Enter setting menu, and enter select **Accessibility**, and then activate **Connect to PC**.



	Check	Uncheck
Micro USB-OTG	V	X
Micro USB-Host	V	V
Docking (USB & LAN)	X	V

2. Connect device to the computer via USB connector.

3. In the notifications area **USB connected** sign will appear.
4. Pull down the notification area to open notification panel.

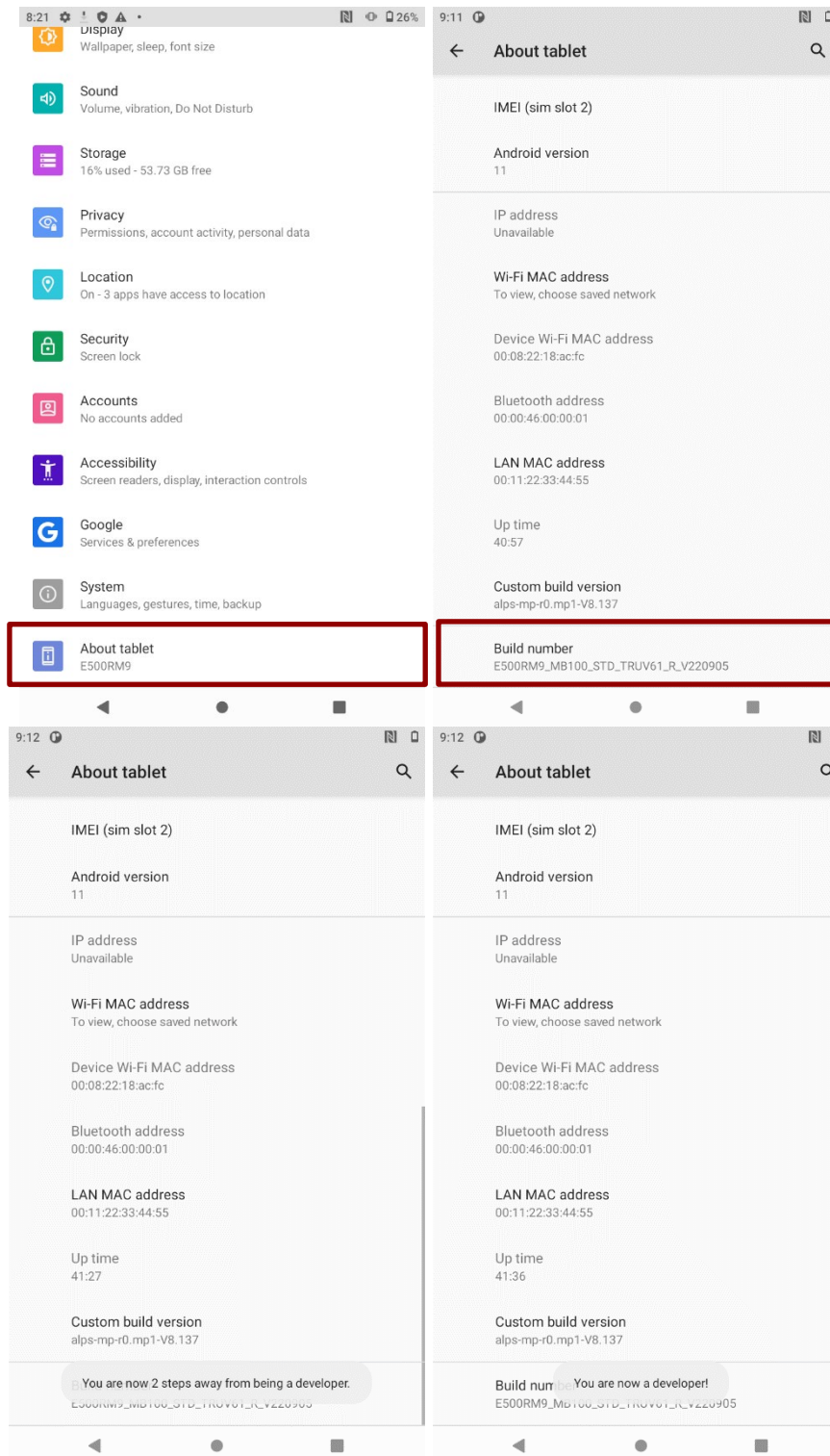


5. Tap the USB connection notification to choose the type of USB connection.
 - **File Transfer** – let user transfers files between computer and tablet.
 - **PTP** – let users transfer photos or media files if MTP is not supported.
 - **MIDI** – let users use device as MIDI.
 - **No data transfer**– disable data transfer.

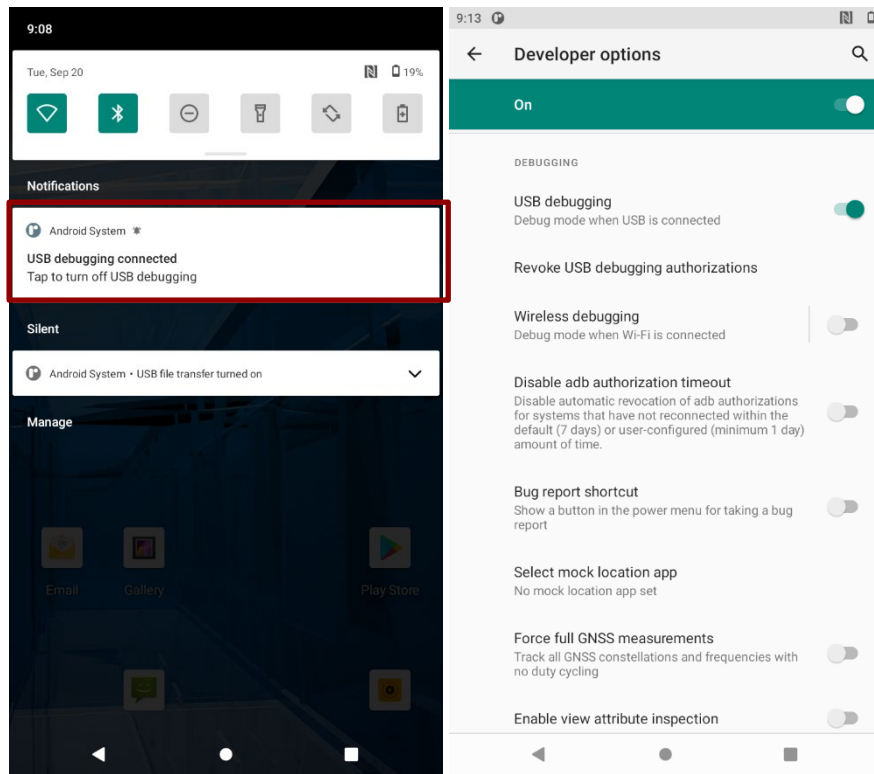
5.4.2 USB Debugging Settings

To open and close debugging tools permit on a computer to communicate with the device via USB Connection.

1. Connect mobile computer to the computer via USB cable.
2. Swipe from the bottom of the main desktop, tap **Settings** ⚙️, tap **About phone**.
3. Tap **Build number**.



4. Pull down the screen to open notification panel. Tap **USB debugging connected**.
5. In the **Developer options** user can choose the action to perform.



Important: 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.

Chapter 6: Using Camera

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

6.1 Capturing Photos or Video

Winmate® E500RM9 is equipped with an 13MP Camera on the rear side and an 8 MP Camera on the front side, which user can use to capture photos or video.

6.1.1 Opening Camera




1. Tap the launcher and then tap **Camera** . Camera opens in Portrait mode, ready to take a picture or shoot a video.

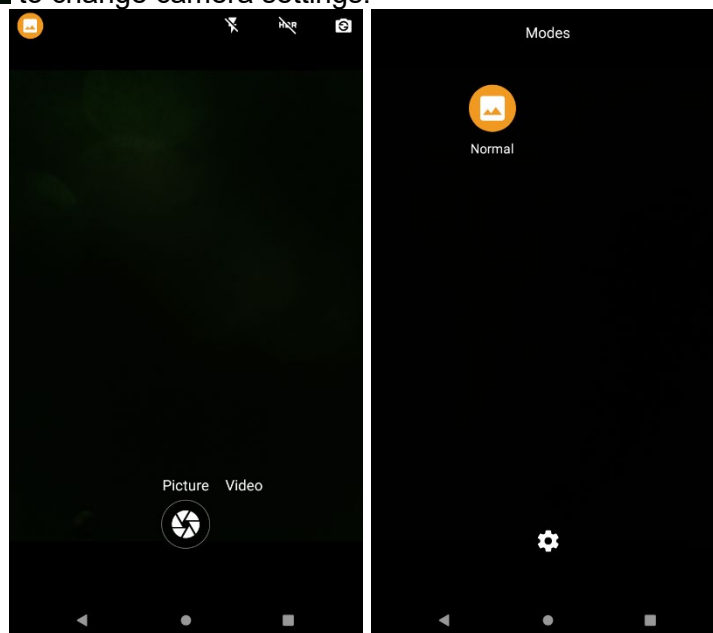


Important:


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

6.1.2 Taking Pictures

1. Adjust the exposure, flash, and other necessary settings or leave it automatic.
2. Tap the Shutter icon .
3. 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.
4. Tap , then  to change camera settings.



6.1.3 Switching Between Front and Rear Cameras





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.





Note:

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


6.1.4 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 a photo.
 -  to delete a photo.
 -  to edit the photo
 -  to view other photos and videos in the gallery.
3. Swipe right or left to view more photos.

6.1.5 Shooting Videos

1. Point the lens to record the scene where you want to start.
2. Tap  to start recording video.
3. The countdown time remaining to shoot is located on the upper left; when the time left is less than a minute, the countdown turns red.
4. Tap the  icon again to stop shooting.


6.2 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 7: Battery Warm Swap (Optional)

Battery warm swap is an optional feature of E500RM9 and may not be present in your device. Please check your device's specifications or contact our sales representative for more information.

To perform the battery warm swap:

1. The Warm Swap Battery function takes 2 minutes after booting up. Long-press the *Power Button* to call out the menu.
2. Go back to the previous page, and a "hotswap is not ready" screen will appear, saying it will take a few seconds.
3. After "Hotswap is ready" appears, long-press the Power Button to call out the menu.
4. In the opened menu on the main desktop right side, click **Swap battery** .
5. DO NOT remove the battery until hotswap mode is ready.
6. When the dialog box disappears and the power LED red light flashes, you can change the battery. Follow the procedure described in section 2.4.1 *Inserting Battery Pack* of this User Guide to remove/install the battery.



Note:

Every time the device is restarted, please wait for at least 2 minutes before activating the warm swap function.

Chapter 8: Capturing Data

This chapter explains how to use NFC, Barcode reader with Winmate® Data Collection application, smartcard reader, and fingerprint scanner on the E500RM9.

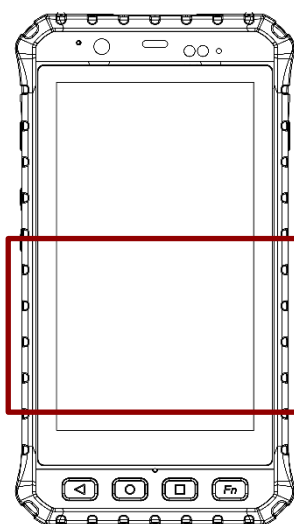


Note:

NFC, Barcode reader, fingerprint scanner, and smart card reader are optional features. It might not be available on your device.

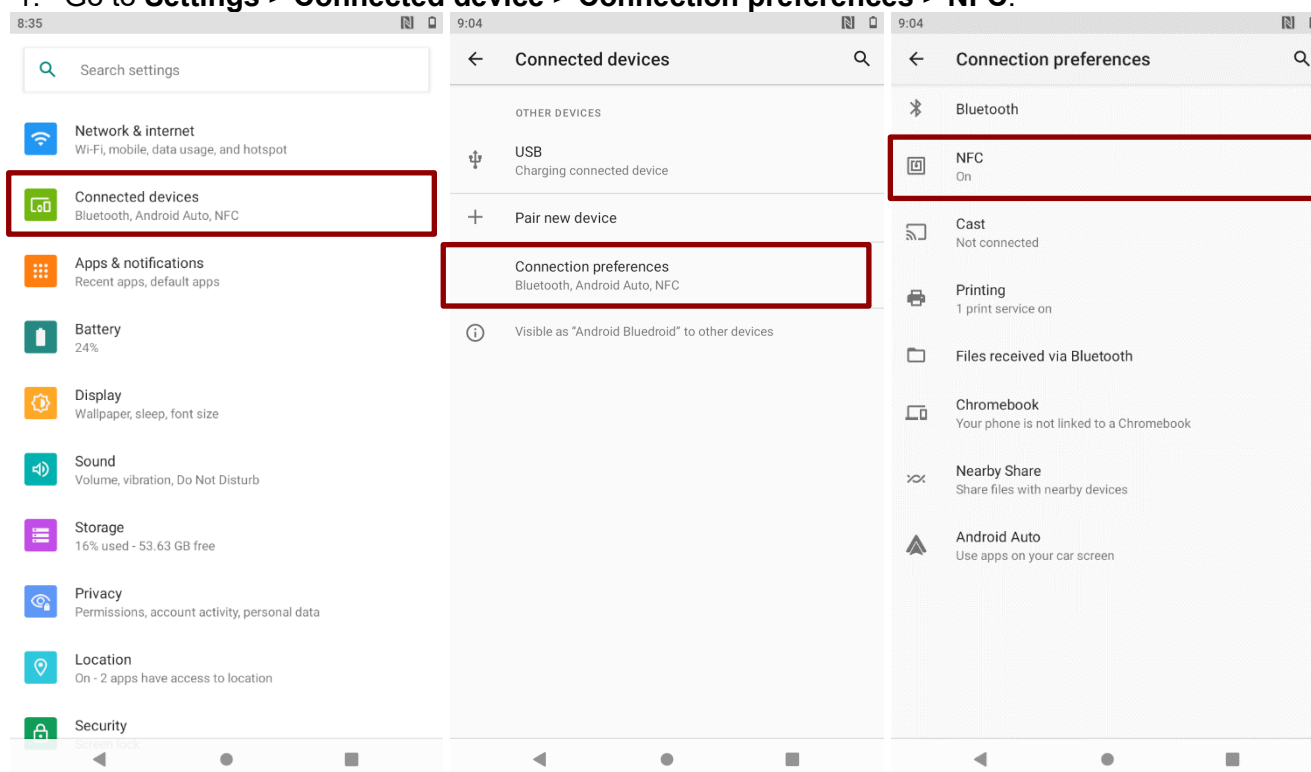
8.1 Using NFC (Optional)

NFC is located on the bottom of the front panel of the device. Notice that NFC reader is either one with optional fingerprint reader.

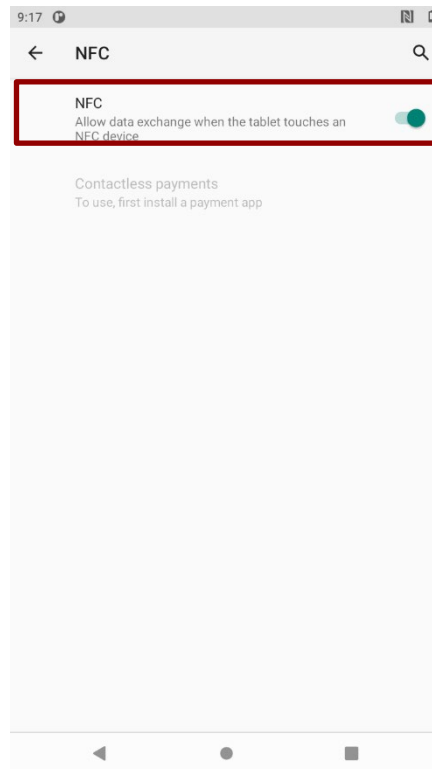


To enable NFC:

1. Go to **Settings > Connected device > Connection preferences > NFC**.

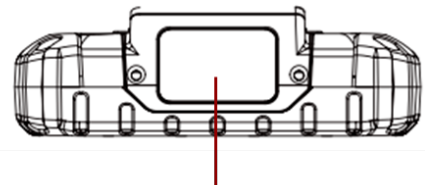


2. Turn on the **NFC**.



8.2 Using Barcode Reader (Optional)



1D/2D Barcode Reader is an optional feature for Winmate® E500RM9 and may not be present in your device. Barcode Reader is located on the top side of the Rugged Mobile Computer.

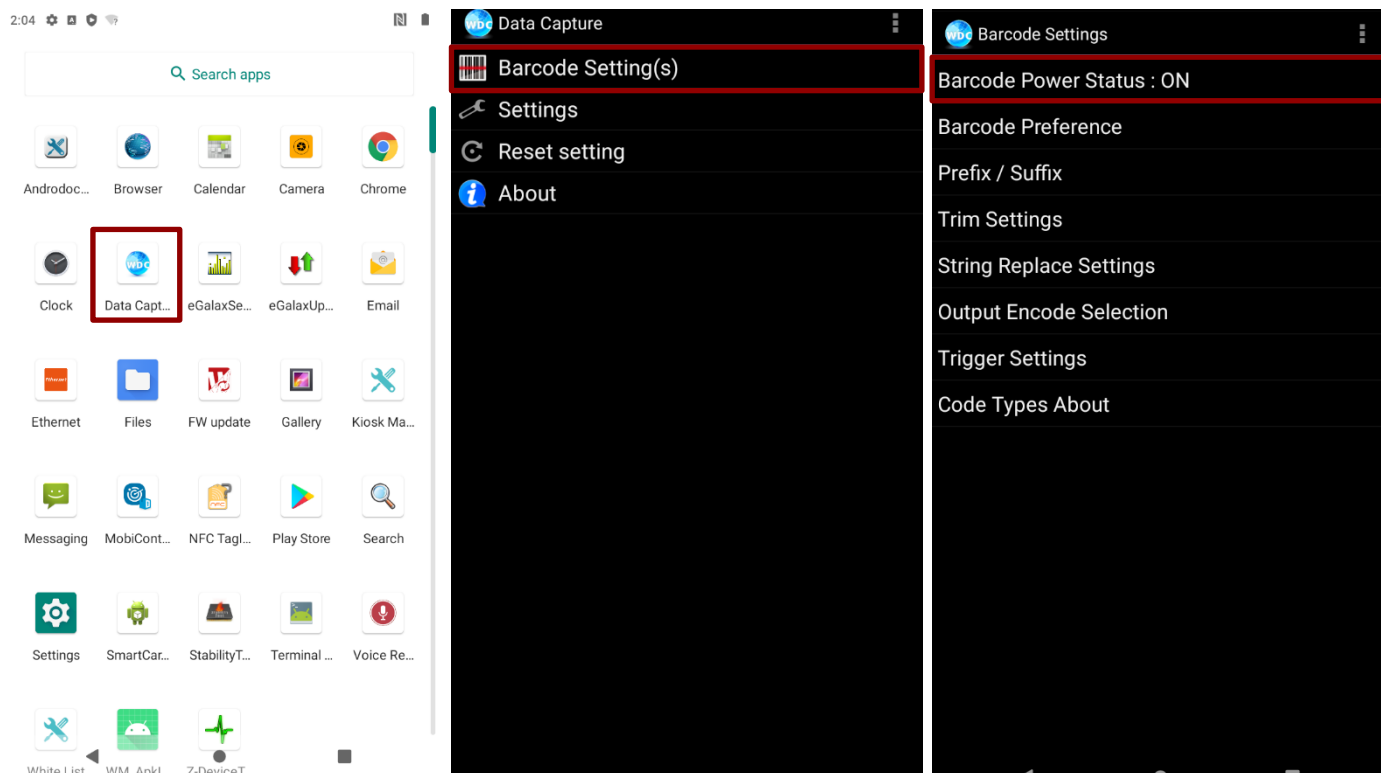


Barcode Reader

8.2.1 Turn On and Off Barcode Reader

The E500RM9 with Barcode Reader comes with pre-installed software Winmate Data Collection (WDC) that allows users to turn on the readers and set up the button to trigger the scan function.

1. Swipe from the bottom of the main desktop, tap **Data Capture (WDC)** .
2. Tap **Barcode Setting(s)** .
3. Once the user entered the WDC application, the device will automatically turn on the Barcode Reader. Turn off the Barcode Reader by tapping **Barcode Power Status: ON**.

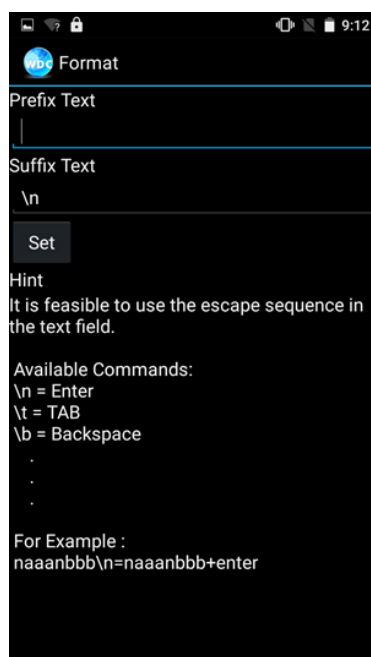


8.2.2 Change the Barcode Symbolologies

1. In the **WDC application**, tap **Barcode Settings**, then tap **Barcode Preference**.
2. Change the symbolologies of the barcode:
 - 1D Symbolologies
 - 2D Symbolologies
 - Imager Options
 - User Preference
 - Disable all symbolologies

8.2.3 Add Commands to the Barcode Output


1. In the **WDC application**, tap **Barcode Setting**, then tap **Prefix / Suffix**.
2. Enter special characters at the beginning (prefix) or end (suffix) of the scanned barcodes.
3. 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”.

8.2.4 Change the Barcode Reader Scan Type

1. In the **WDC application**, tap **Barcode Settings** , then **Trigger Settings**.
2. Select the **Scan Type** or select read time of the Barcode Reader.
 - **Auto Scan** – Barcode Reader starts auto-scanning once the user leaves the WDC application.
 - **Multiple Scan** –After pressing the trigger button Barcode Reader starts continuously scanning and reading multiple codes within the time duration selected in Read time option.
 - **Auto Detect Scan** – Barcode Reader keeps auto-scanning while the device is being moved.
 - **Continuing Scan or Single Scan (default)** – After pressing the trigger button Barcode Reader can only read a single code within time duration selected in Read time option.

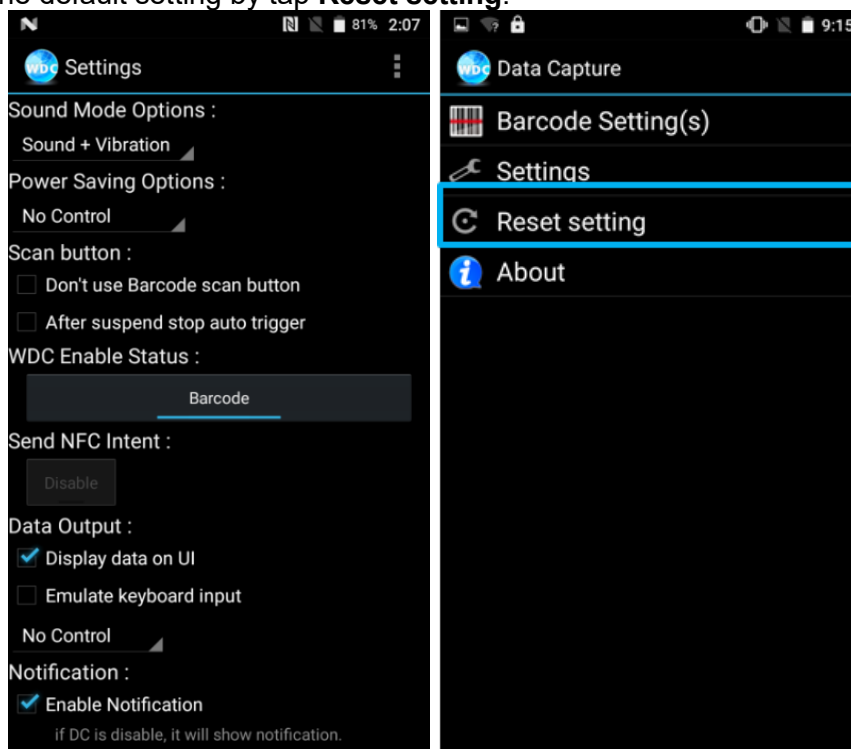


Note:

The options showed will be different depending on the version of Barcode Reader or Android operating system.

8.2.5 Change the WDC Setting or Reset to Default

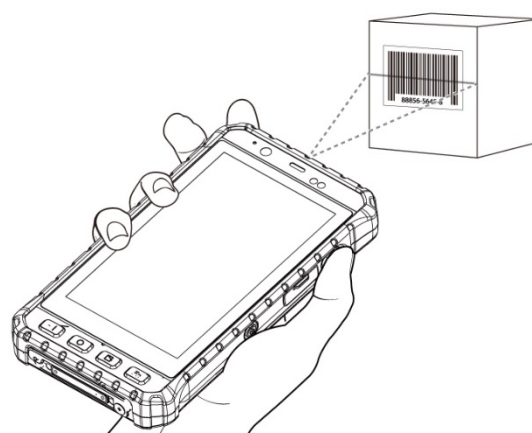
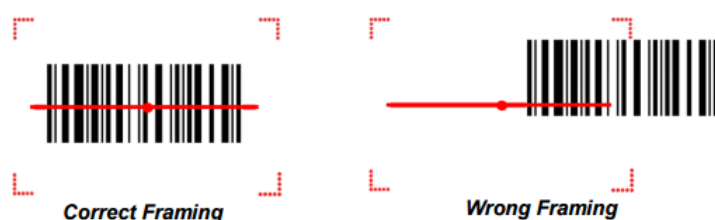
1. In the **WDC application**, tap **Settings**.
2. Select the options to change the setting of the application.
3. Or, reset to the default setting by tap **Reset setting**.



8.2.6 Scanning Barcodes

1. Tear off protective film from the barcode.
2. Open Search applications or any other text edit utilities.
3. Press the function button to trigger the barcode.
4. Aim the barcode.
5. Ensure the entire barcode is within the rectangular area formed by the brackets in the laser framing. Scan the following barcode to check if your reader is working properly. Results will be displayed in the selected utilities.

Code-39



8.2.7 Scanning Tips and Considerations

8.2.7.1 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

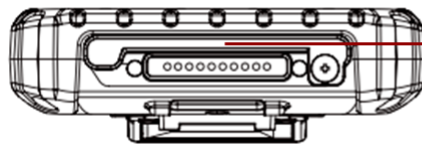
8.2.7.2 Angle

Scanning angle is important for promoting quick decodes.

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

8.3 Using Smart Card Reader (Optional)

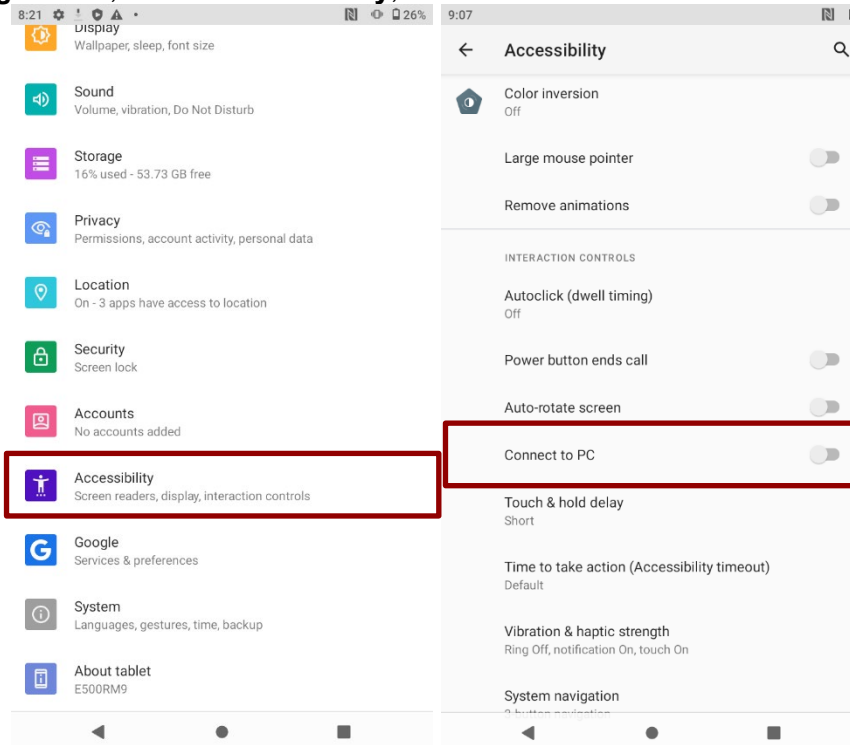
Smart Card Reader is located on the bottom side of the E500RM9.



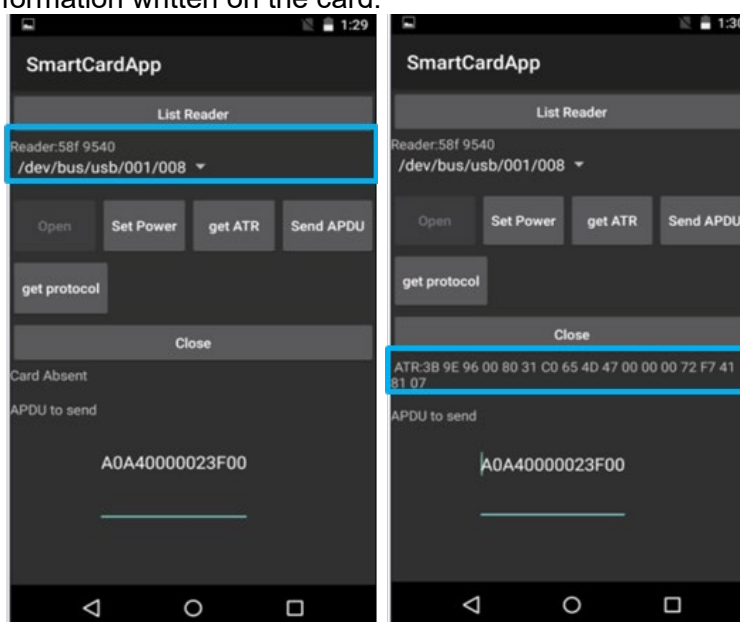
Smart Card Reader

8.3.1 Use Smart Card Reader

1. Enter **Settings** menu, select **Accessibility**, and then deactivate the **Connect to PC**.



2. Launch the **Smart Card APP**, select **List Reader**, and then press open.
3. Insert the Smart Card (IC face to rear) then select “**Set Power**” and select **power on**. Press **Get ATR** to see the information written on the card.



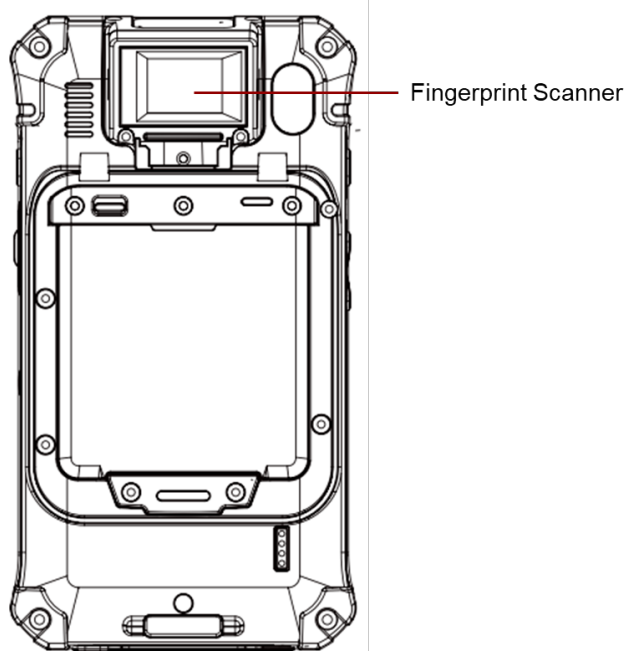
If reader information is not available, please go back to Step 1 then check and uncheck **Connect to PC** again.

8.3.2 Smart Card Reader SDK

You can download Smart Card Reader SDK from Winmate Download Center. For more details on Winmate's SDK refer to Appendix B.

8.4 Using Fingerprint Scanner (Optional)

Fingerprint Scanner is an optional feature for E500RM9 Rugged Mobile Computer and may not be present in your device. Fingerprint Scanner is located on the top rear side of the E500RM9.



8.5 Docking Connector Pin Definition

The E500RM9 mobile computer supports one 8-pin docking connector at the bottom side. The pin definition is listed as the following table.

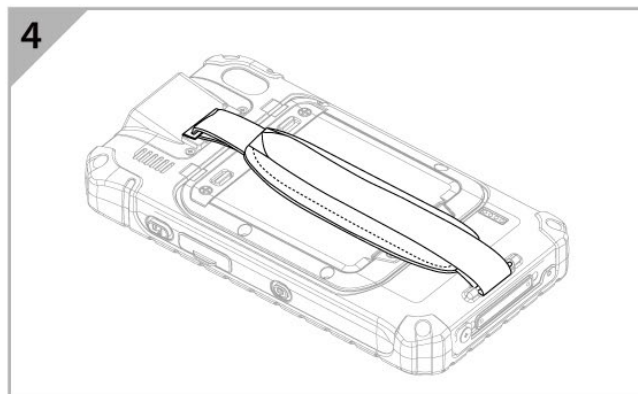
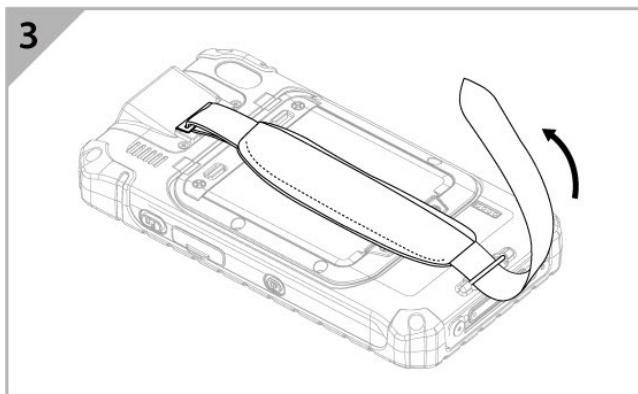
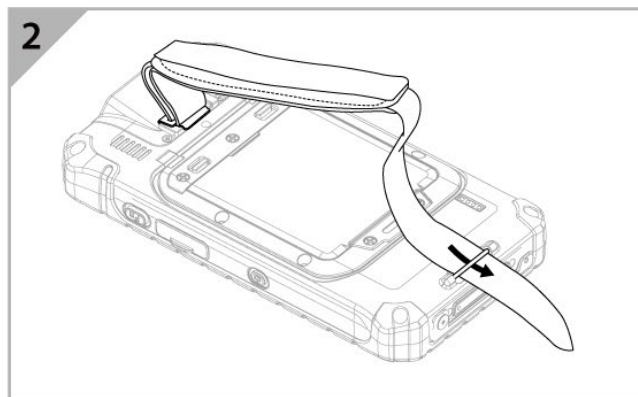
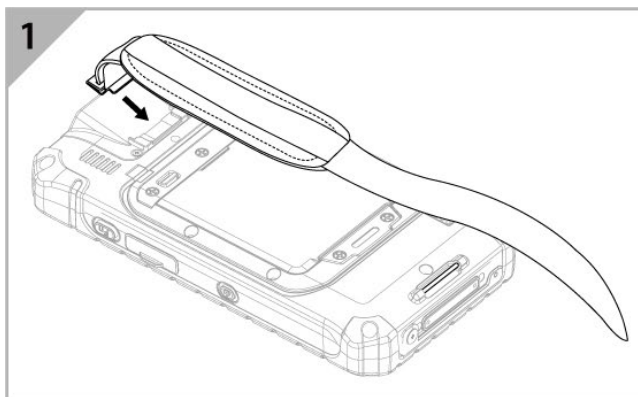


Pin no.	Signal	Pin no.	Signal
1	Detect	2	Power
3	Power	4	USB +
5	USB -	6	GND
7	GND	8	Detect

8.6 Hand Strap Installation

To install hand strap:

1. Place the device face-down on a flat surface. Attach the hand strap plate to the upper retaining bar.
2. Insert another side of the hand strap to the under bar.
3. Place your hand under the hand strap to adjust the fit.
4. Then fold the hand strap over and press down firmly to attach the hooks and loops, as shown at the illustration.



Appendix

Appendix A: Basic Troubleshooting

Problem	Solution
The removable battery is not charging.	<ul style="list-style-type: none"> Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.
Nothing appears on the screen.	<ul style="list-style-type: none"> The mobile computer may be in sleep mode. Press the power button to wake up the display. The brightness level may be too low. Increase brightness.
The screen suddenly turns blank and the power indicator goes off.	<ul style="list-style-type: none"> Make sure the AC adapter is properly connected. If running on battery power, the battery may be depleted, charge the battery. Make sure that LED Indicator shows red.
Wireless LAN signal quality is poor.	<ul style="list-style-type: none"> The mobile computer may be out of range. Move the device 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 device away from objects causing interference.
I cannot connect to another wireless LAN device.	<ul style="list-style-type: none"> Make sure that wireless LAN feature is powered on. Make sure that the SSID setting is the same for every wireless LAN device in the network. Restart the mobile computer. Make sure the IP address or subnet mask setting is correct.
I cannot connect to another device with BT.	<ul style="list-style-type: none"> Make sure that both devices have BT powered on (For the Mobile computer, check Settings to check if BT is powered on). Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between the devices. Make sure the both devices are powered on and configured to be discoverable. Make sure that both devices are compatible.
The GPS application cannot find my location.	<ul style="list-style-type: none"> Make sure that GPS is turned on in Settings. Make sure that GPS receiver and the location sensor are enabled in Control Panel. The mobile computer may be out of coverage area. Move your device outdoors or closer to a window. Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the device away from objects causing interference.
No sound is produced.	<ul style="list-style-type: none"> Adjust volume of the mobile 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 mobile computer display to another monitor.	<ul style="list-style-type: none"> Make sure the VGA driver is installed. Make sure the output setting selected is correct.

Problem	Solution
Barcode scanner does not emit laser beam and does not seem to work.	<ul style="list-style-type: none"> • Make sure the Barcode scanner device is detected, please open WDC application and check Data Capture “About”. • If the device is not detected in WDC application under Data Capture “About”, please press Reset Setting in Data Capture.
Barcode Scanner emits laser beam but does not read barcode presented to it.	<ul style="list-style-type: none"> • Adjust the distance between barcode scanner of the device and the barcode being scanned. • Make sure the barcode code type is enabled in the mobile computer. To enable/disable a specific barcode code type, go through the “Barcode Scanner Configuration” section.
Battery leaking or swollen	<ul style="list-style-type: none"> • The lithium battery used in this mobile computer may swell after being charged/ discharged many times, but there is no problem regarding safety. • Continued use in such a state may result in the battery getting jammed, so please stop using the battery, and purchase a new one.

Appendix B: Software Development Kit

Winmate® provides the following drivers and Software Development Kit (SDK) for E500RM9.

Item	File Type	Description
1	E500RM9 Drivers	Android Debug Bridge (ADB) Driver / USB Driver
2	E500RM9 Flash Tool	Flash Tool
3	General SDK (WDC)	Development kit for WDC, including Barcode Reader and Fingerprint Scanner
4	Smart Card Reader SDK	E500RM9 Smart Card Reader SDK - Android Development Kit

Download SDK from Winmate Download Center.

Winmate Download Center:

<https://www.winmate.com> > Support > Download Center

Appendix C: Product Specifications

Model Name		E500RM9
Display	Size	5 inches
	Resolution	1280 x 720
	Brightness	500 nits
	Contrast Ratio	800:1
	Viewing Angle	80/80/80/80
	Touch	Projected Capacitive Multi-Touch
	Bonding	Optical Bonding for Sunlight Viewability
System Specification	Processor	ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)
	System Memory	4 GB
	Storage	64 GB
	Operating System	Android 11.0
	WLAN	Support
	BT	Support
	GNSS	GPS / AGPS
	WWAN	4G/LTE (Optional)
	Sensors	Ambient Light Sensor, E-Compass, Gyro, Acceleration Sensors
	RFID	NFC (Read / Write, Peer to Peer mode) (Optional)
	Smart Card Reader	ISO7816 Part 1.2.3 Smart card reader (Optional)
	Fingerprint Scanner	Fingerprint Reader (Optional)
Camera	Front Camera	8 MP Front Camera
	Rear Camera	13 MP Rear Camera with auto-focus and LED light
Mechanical	Dimensions	85.9 x 163.2 x 22.5 mm
	Weight	315 g
IO Ports	USB Port	1 x Micro USB OTG
	SIM Card Slot	2 x SIM Card Slot
	SD Card Slot	1 x Micro SD Card Slot
	Audio	2 x Built-in Mic 1 x Speaker 1 x Receiver
	Docking Connector	1 x Docking Connector
	Indicator	1 x LED Indicators (Power, Battery)
Control	Buttons	1 x Volume +/- 1 x Power button 3 x Function button 1 x Home 1 x Menu 1 x Esc
Power	Battery	3.7V 3900 mAh Hot swappable function (Optional)
	Power Rating	5 V
	Adapter	5V 2A adapter
Environment	Operating temp	-10°C to 50°C (Battery mode)

Model Name	E500RM9	
	Operating humidity	10% to 95% RH, Non condensing
	Shock	MIL-STD 810H Method 516.6 Procedure I
	Vibration	MIL-STD 810H Method 514.8 Procedure I
	Drop	MIL-STD 810H Method 516.8 4 ft
	IP rating	IP65, compliance IEC60592
	Security	SOTI MobiControl Compliance
Data Capture	Barcode scanner	1D/2D Barcode reader (Optional)

NOTE:

- Accessories and Integrated Options may vary depending on your configuration. The product shown in this document is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
- All specifications are subject to change without prior notice.

Appendix D: OS Image Update

Winmate provide OS Image update tool. Please contact our sales representative to receive the latest OS image available for your device.

Appendix E: OTA Update Guide

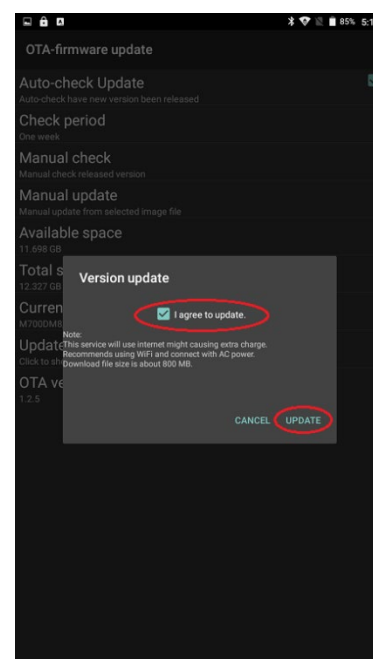
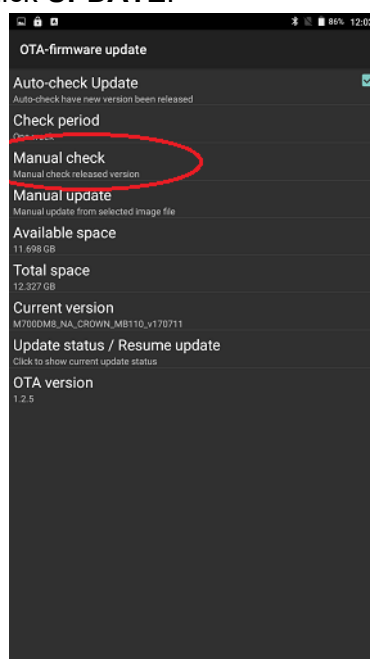
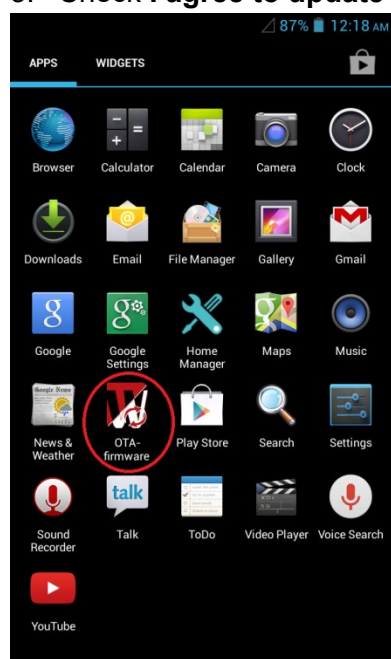
You can use online OTA Update tool to update firmware version.

**Important**

Battery capacity must not be lower than 30% during update.

To update OTA:

- Select **OTA-firmware**.
- Select **Manual check**.
- Check **I agree to update** and click **UPDATE**.



4. Wait for download finish it will take some time.
5. Click **REBOOT NOW**.
6. Wait while Ota is updating.

