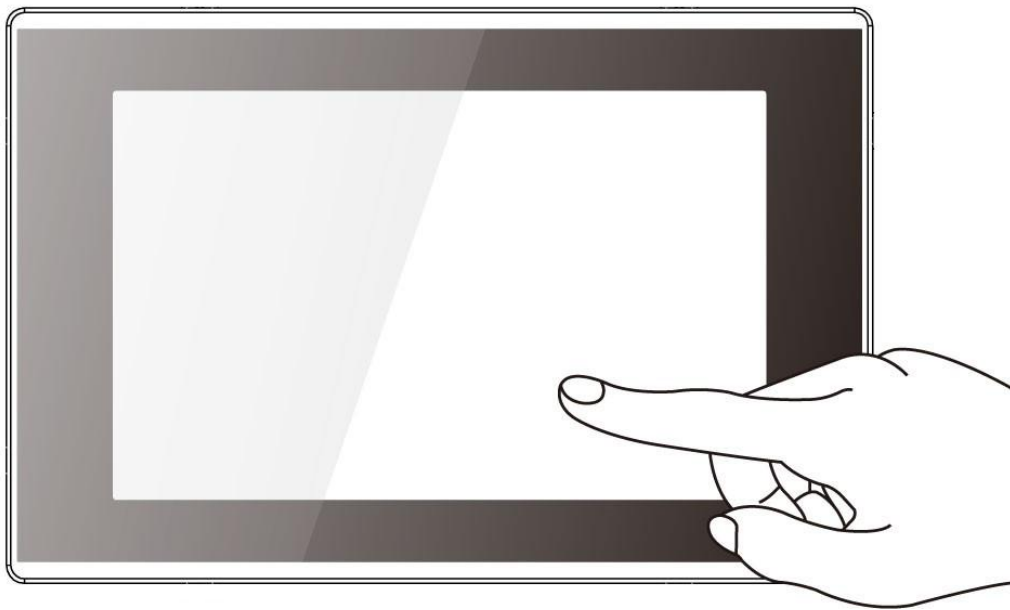


7"/ 10.1"/ 12.1"/ 15"/

S-Series HMI

ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz



Model No. W07MG3S-PCT1AC-POE
W07MG3S-PCT1-POE
W07MG3S-PCO1AC-POE
W07MG3S-PCO1-POE
W10MG3S-PCH2AC-POE
W10MG3S-PCH2-POE
W10MG3S-PCH2LB-POE
R12MG3S-PCM2AC-POE
R12MG3S-PCM2-POE
R15MG3S-PCC3AC-POE
R15MG3S-PCC3-POE

User Manual

Content

Preface	3
About This User Manual	8
Chapter 1: Introduction	9
1.1 Product Features	9
1.2 Package Contents.....	9
1.3 Description of Parts.....	10
Chapter 2: Getting Started	16
2.1 Powering On	16
2.1.1 AC Adapter Components	16
2.1.2 Power Considerations	17
2.1.3 Connecting the Power.....	17
2.2 Connector Pinouts	18
2.2.1 DC Input Connector	18
2.2.2 Serial Port Connector.....	18
2.2.3 USB 2.0 Connector	18
2.2.4 USB OTG Type-C Connectors	19
2.2.5 LAN (RJ45) Connector.....	19
2.2.6 Micro-SD Card Slot	20
2.2.7 Micro HDMI Connector (Optional)	20
2.3 Turning On and Off the HMI Device	21
2.4 Resetting to Factory Defaults	23
Chapter 3: Using the HMI Panel PC	26
3.1 Using the Touch Screen.....	26
3.2 Using the Home Screen	27
3.2.1 Opening 3-Button Navigation	28
3.2.2 Personalizing Home Screen.....	30
3.2.3 Viewing other parts of the Home Screen.....	33
3.3 Status and Notification Icons.....	34
3.3.1 Notification Icons.....	34
3.3.2 Status Icons	34
3.4 Using the On-Screen Keyboard	35
3.4.1 Entering Text	35
3.4.2 Editing Text.....	38
3.5 Display Settings	40
3.6 Audio Profile Settings.....	42
3.6.1 Sound Settings	42
3.7 Language and Keyboard Settings	43

3.8 About phone	47
3.9 Testing LED Status Light Bar	48
3.10 Reading RFID Tag (Optional).....	49
Chapter 4: Winmate Kiosk Manager	51
4.1 Lock Applications Launcher	51
4.2 Change Password.....	57
4.3 Unlock Applications Launcher	58
Chapter 5: Networks and Wireless Devices.....	61
5.1 Connecting to Wi-Fi Networks (Optional)	61
5.1.1 Turning on Wi-Fi and Connecting to Wi-Fi Networks.....	61
5.1.2 Adding Wi-Fi Network	63
5.2 Connecting to BT Devices (Optional)	66
5.2.1 Turning BT On or Off	66
5.2.2 Connecting the BT Device	67
5.2.3 Disconnecting BT Device	67
5.3 Connecting to Computer via USB.....	69
5.3.1 USB Debugging Settings	69
5.3.2 USB Computer Connection	74
Chapter 6: Mounting	76
6.1 Cable Mounting Considerations	76
6.2 Safety Precautions.....	76
6.3 Mounting Guide.....	77
6.3.1 VESA Mount	77
6.3.2 Panel Mount.....	78
Appendix A: Product Specifications	79
Appendix B: OTA Update Guide	84
Appendix C: OS Image Update Guide	86

Preface

Copyright Notice

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

Trademark Acknowledgement

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

Disclaimer

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

Warranty

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

For example, the serial number 1W20Axxxxxxx means October of year 2020.

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.

Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème 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 chocs sur des emplacements électriques et comment éviter ces problèmes.

**ALTERNATING CURRENT / MISE À LE TERRE!**

The Protective Conductor Terminal (Earth Ground) symbol indicates the potential risk of serious electrical shock due to improper grounding.

Le symbole de Mise à Terre indique le risqué potentiel de choc électrique grave à la terre incorrecte.

Safety Information

WARNING! / AVERTISSEMENT!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Toujours débrancher le cordon d'alimentation du chassis lorsque vous travaillez sur celui-ci. Ne pas brancher de connexions lorsque l'alimentation est présente. Des composantes électroniques sensibles peuvent être endommagées par des sauts d'alimentation. Seulement du personnel expérimenté devrait ouvrir ces chassis.

CAUTION/ATTENTION



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Toujours vérifier votre mise à la terre afin d'éliminer toute charge statique avant de toucher la carte CPU. Les équipements électroniques modernes sont très sensibles aux décharges d'électricité statique. Toujours utiliser un bracelet de mise à la terre comme précaution. Placer toutes les composantes électroniques sur une surface conçue pour dissiper les charge, ou dans un sac anti-statique lorsqu'elles ne sont pas dans le chassis.

Safety Precautions

For your safety carefully read all the safety instructions before using the device. Keep this user manual for future reference.

- Always disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
- For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.
- Keep this equipment away from humidity.
- Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
- The openings on the enclosure are for air convection and to protect the equipment from overheating.



CAUTION/ATTENTION

Do not cover the openings!
Ne pas couvrir les ouvertures!

- Before connecting the equipment to the power outlet make sure the voltage of the power source is correct.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.
- Never pour any liquid into an opening. This could cause fire or electrical shock.
- Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- All cautions and warnings on the equipment should be noted.

***Let service personnel to check the equipment in case any of the following problems appear:**

- The power cord or plug is damaged.
- Liquid has penetrated into the equipment.
- The equipment has been exposed to moisture.
- The equipment does not work well or you cannot get it to work according to the user manual.
- The equipment has been dropped and damaged.
- The equipment has obvious signs of breakage.
- Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20°C (-4°F) or above 60°C (140°F). It may damage the equipment.



CAUTION/ATTENTION

Use the recommended mounting apparatus to avoid risk of injury.
Utiliser l'appareil de fixation recommandé pour éliminer le risque de blessure.



WARNING! / AVERTISSEMENT!

Only use the connection cords that come with the product. When in doubt, please contact the manufacturer.
Utiliser seulement les cordons d'alimentation fournis avec le produit. Si vous doutez de leur provenance, contactez le fabricant.



WARNING! / AVERTISSEMENT!

Always ground yourself against electrostatic damage to the device.
Toujours vérifier votre mise à la terre afin que l'équipement ne se décharge pas sur vous.

- Cover workstations with approved anti-static material. Use a wrist strap connected to a work surface and properly grounded tools and equipment.
- Use anti-static mats, heel straps, or air ionizer for added protection.
- Avoid contact with pins, leads, or circuitry.
- Turn off power and input signals before inserting and removing connectors or test equipment.
- Keep the work area free of non-conductive materials, such as ordinary plastic assembly aids and Styrofoam.
- Use filed service tools, such as cutters, screwdrivers, and vacuum cleaners that are conductive.
- Always put drivers and PCB's component side on anti-static foam.

Important Information

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.

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
 - IEC61000-4-2: 2009
 - IEC61000-4-3: 2006+A1: 2007+A2: 2010
 - IEC61000-4-4: 2012
 - IEC61000-4-5: 2014
 - IEC61000-4-6: 2013
 - IEC61000-4-8: 2010
 - IEC61000-4-11: 2004
- EN55022: 2010/AC:2011
- 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

About This User Manual

This User Manual provides information about using the Winmate® S-Series HMI. This User Manual applies to the S-Series HMI.

The documentation set for the S-Series HMI with ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz CPU provides information for specific user needs, and includes:

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



NOTE:

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

Chapter 1: Introduction

Congratulations on purchasing the Winmate® S-Series HMI. Winmate® continues developing new generation of Human Machine Interfaces for Industry 4.0 and Internet of Things (IoT). Our S-Series HMI runs on Android 13 operating system that allows installing the latest applications (APPs). Thereby wide customization possibilities are available to satisfy the needs of industrial automation.

There are two USB 2.0 onboard to connect mouse or keyboard, USB OTG for system updates and microSD card for data logging, backup or data storage. System memory of 4 GB ensures stable operation of applications.

1.1 Product Features

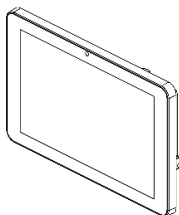
The Winmate® S-Series HMI features:

- Projected Capacitive Multi-Touch (PCAP)
- ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz CPU
- Fanless cooling system and ultra-low power consumption
- Front IP65 Water and Dust Proof
- Support PoE function
- Stylish design for room booking, access control, and room information applications
- Optional 2 MP front camera and HF-RFID reader

1.2 Package Contents

Carefully remove the box and unpack your device. Please check if all the items listed below are inside your package. If any of these items are missing or damaged contact us immediately.

Standard factory shipment list:



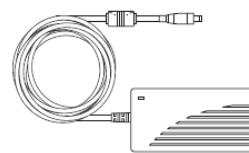
HMI Device

Varies by product specifications



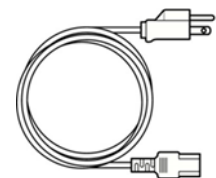
User Manual (Hardcopy)

91521110114G



AC Adapter (12V/ 50W)

922D050W12VA



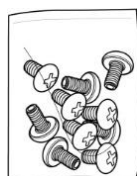
Power Cord

Varies by country



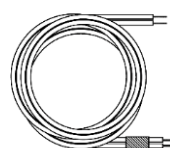
3 pin Terminal Block

94J602G030K0



VESA Screws

Varies by product specifications



Open Wire Cable with Terminal Block Connector

94EL02X020E0

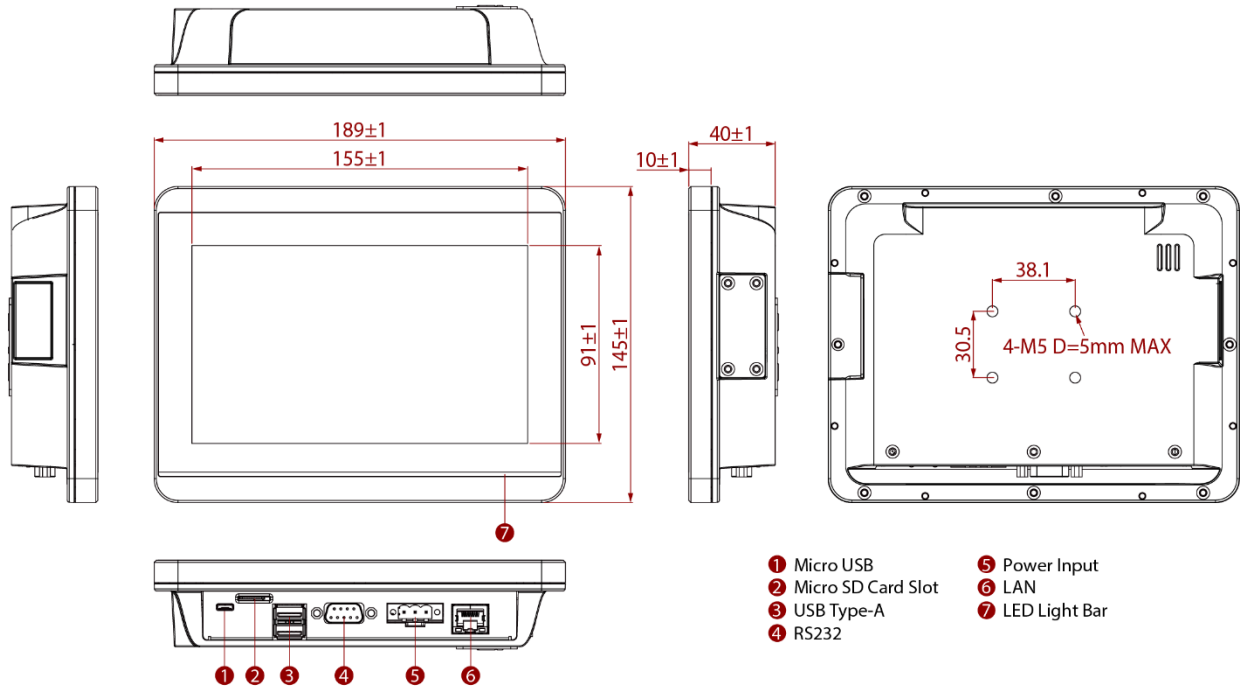
**Package content may vary based on your order.*

1.3 Description of Parts

This section describes appearance, connectors' layout and mechanical dimensions of S-Series HMI. Notice that this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

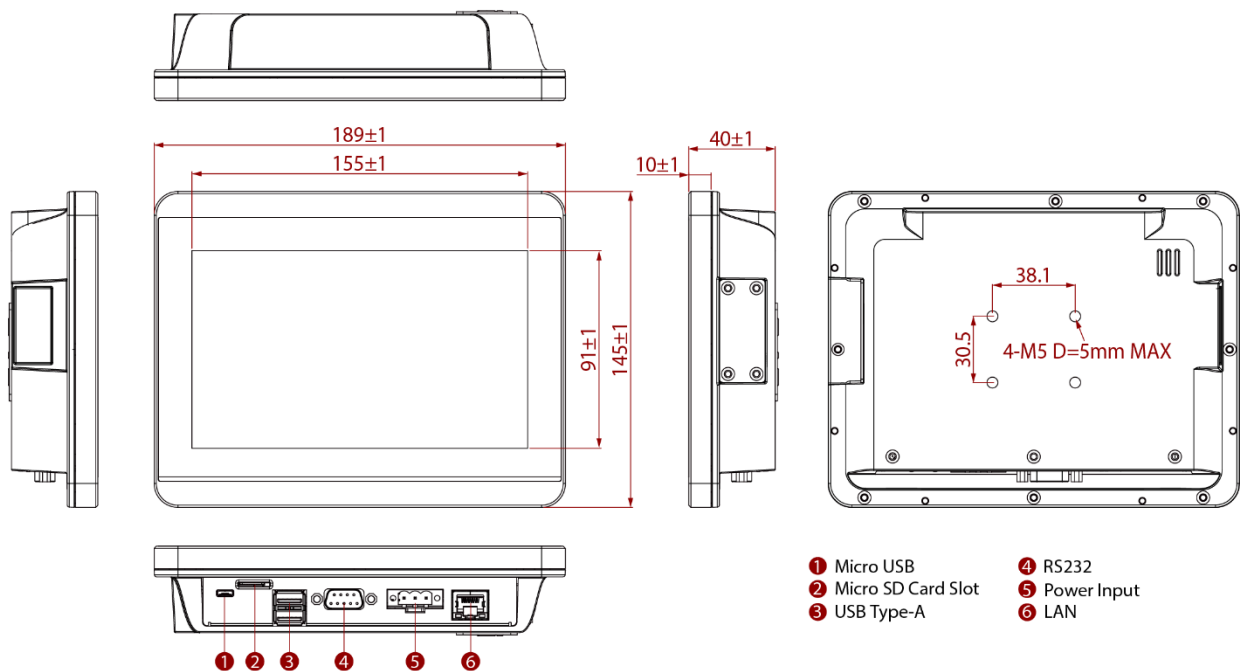
W07MG3S-PCT1AC-POE

Unit: mm



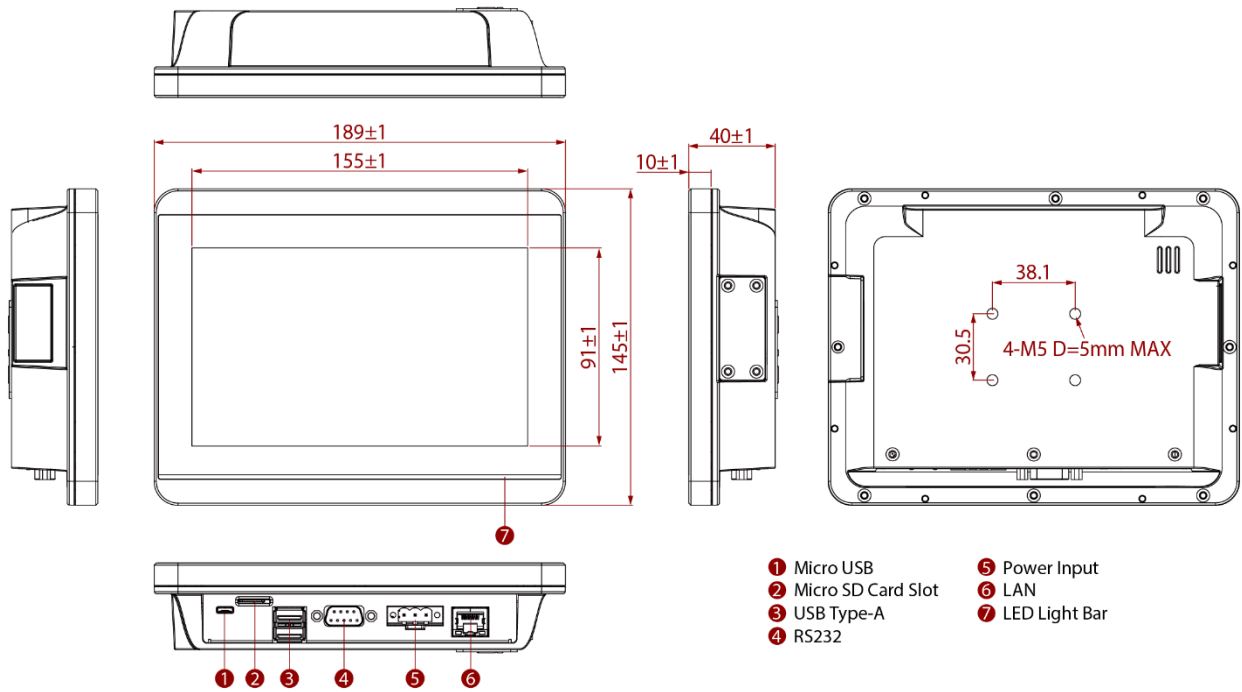
W07MG3S-PCT1-POE

Unit: mm



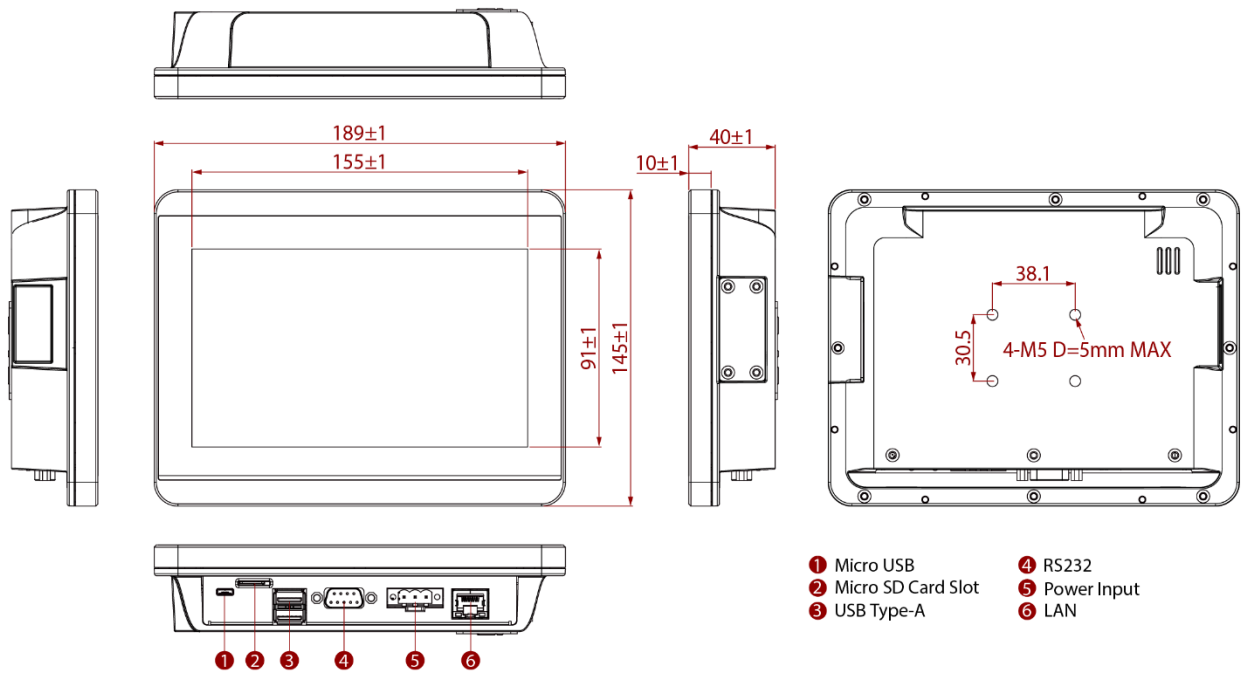
W07MG3S-PCO1AC-POE

Unit: mm



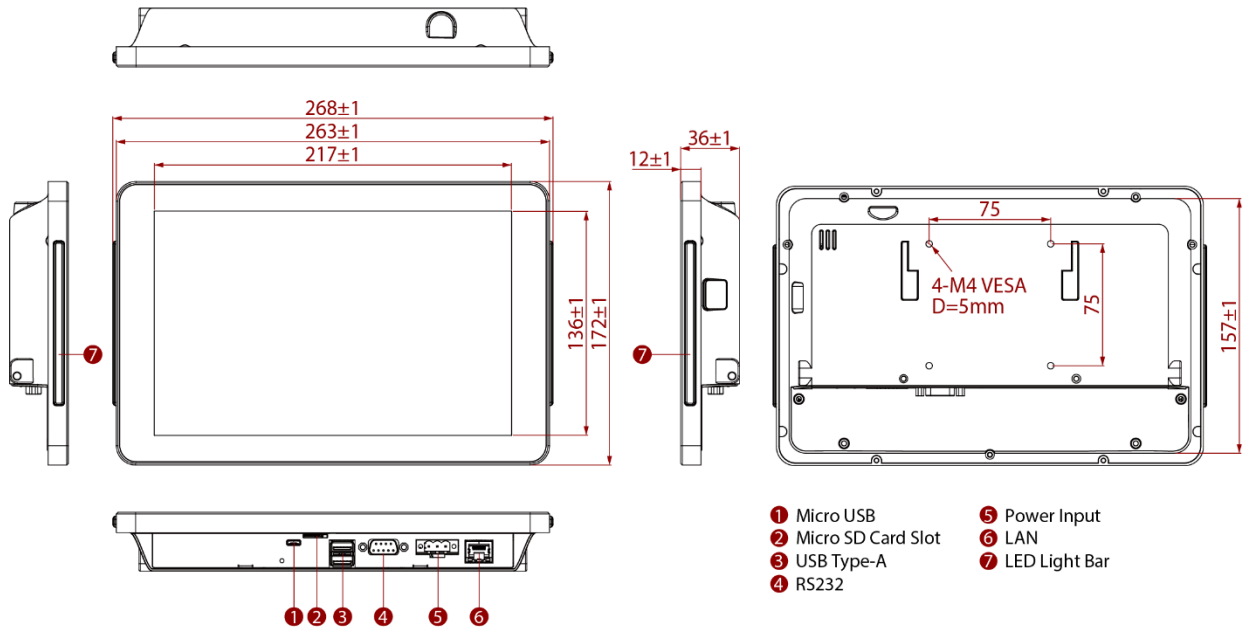
W07MG3S-PCO1-POE

Unit: mm

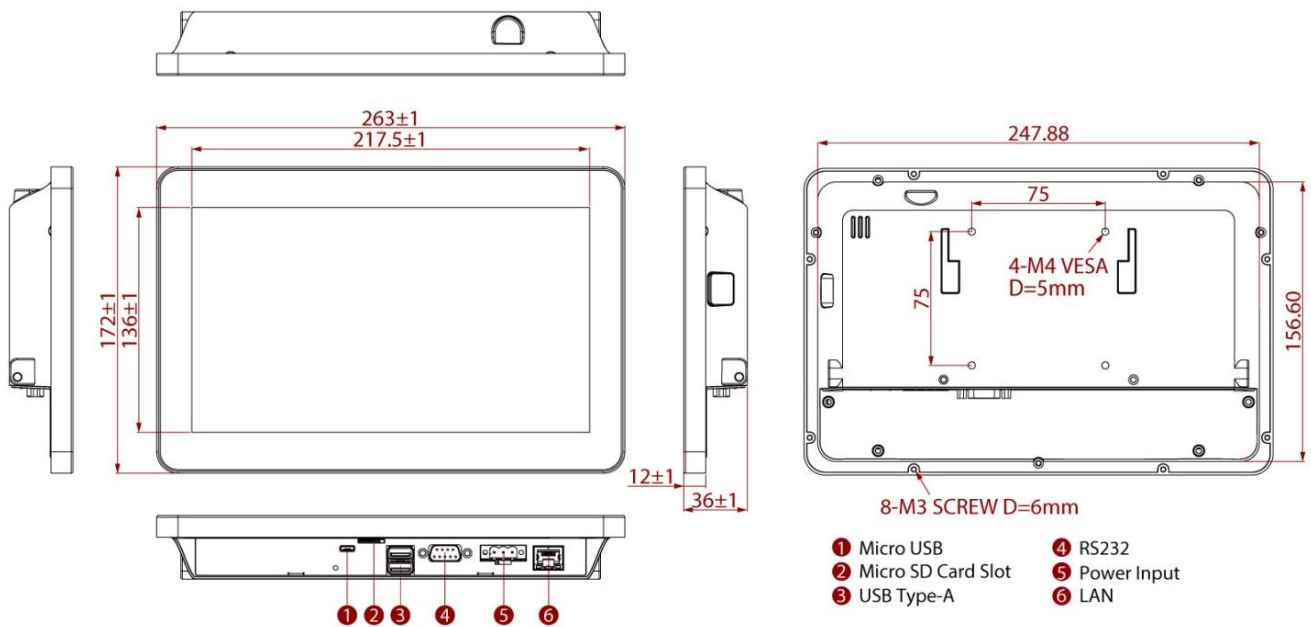


W10MG3S-PCH2AC-POE

Unit: mm

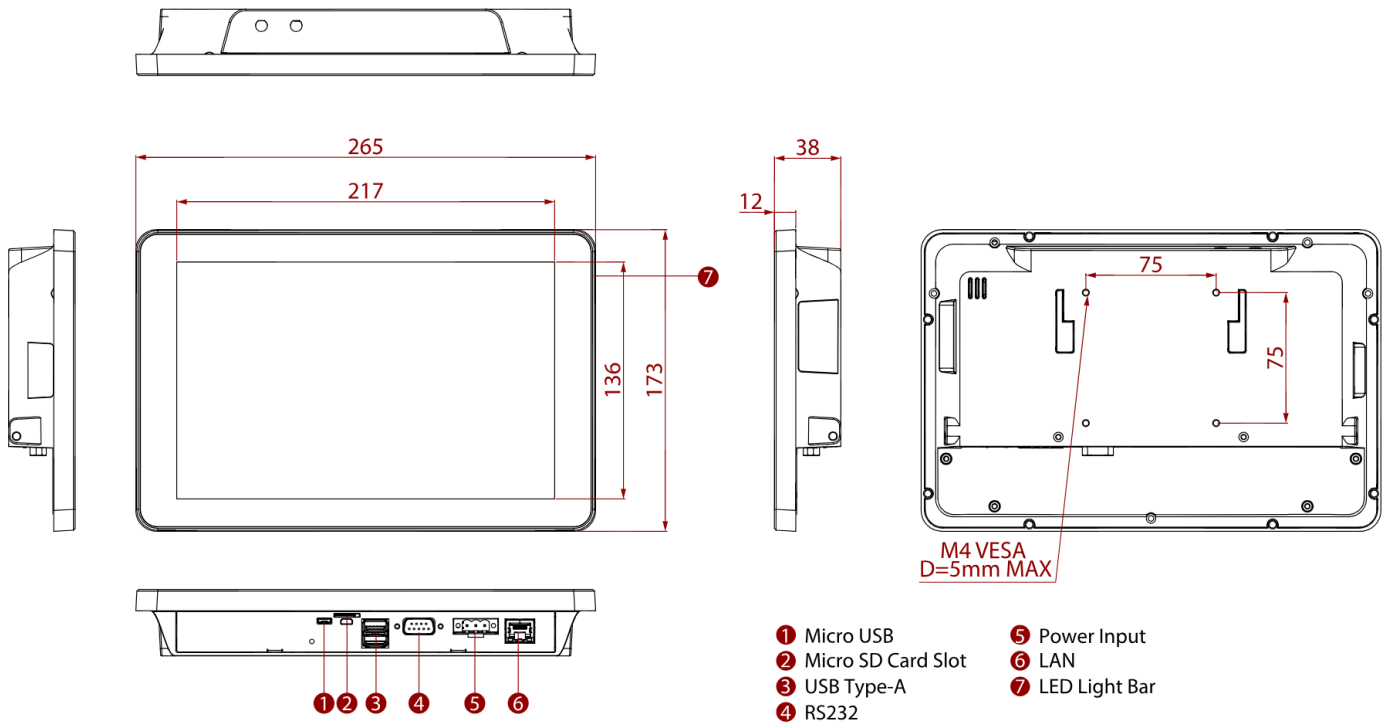
**W10MG3S-PCH2-POE**

Unit: mm



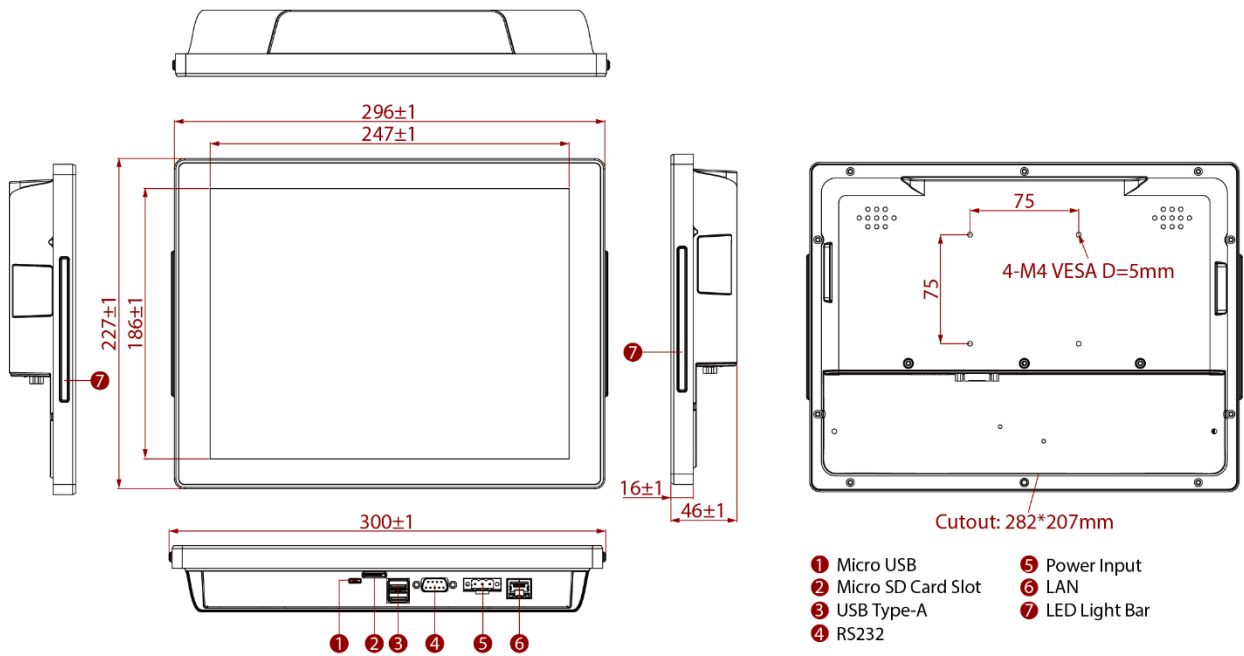
W10MG3S-PCH2LB-POE

Unit: mm



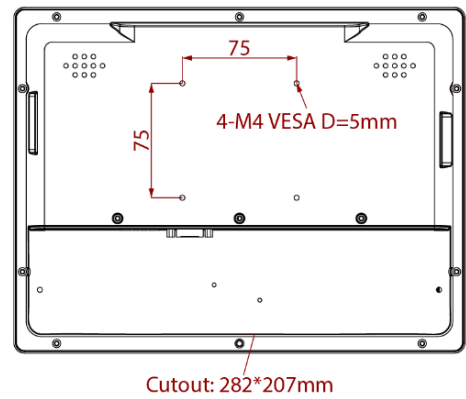
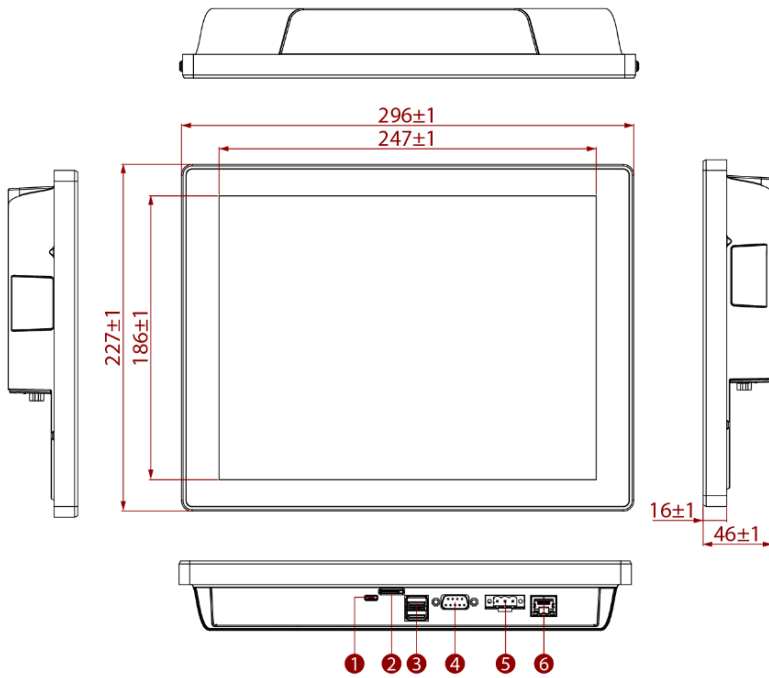
R12MG3S-PCM2AC-POE

Unit: mm



R12MG3S-PCM2-POE

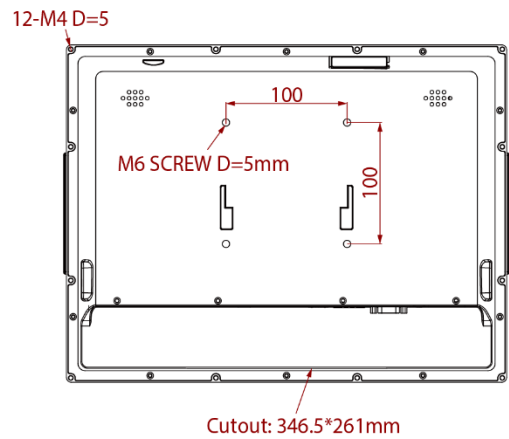
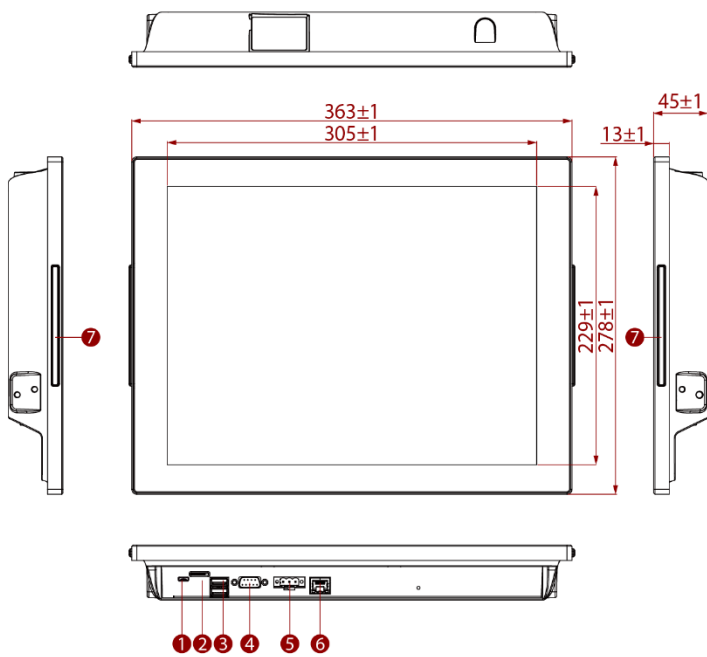
Unit: mm



- ① Micro USB
- ② Micro SD Card Slot
- ③ USB Type-A
- ④ RS232
- ⑤ Power Input
- ⑥ LAN

R15MG3S-PCC3AC-POE

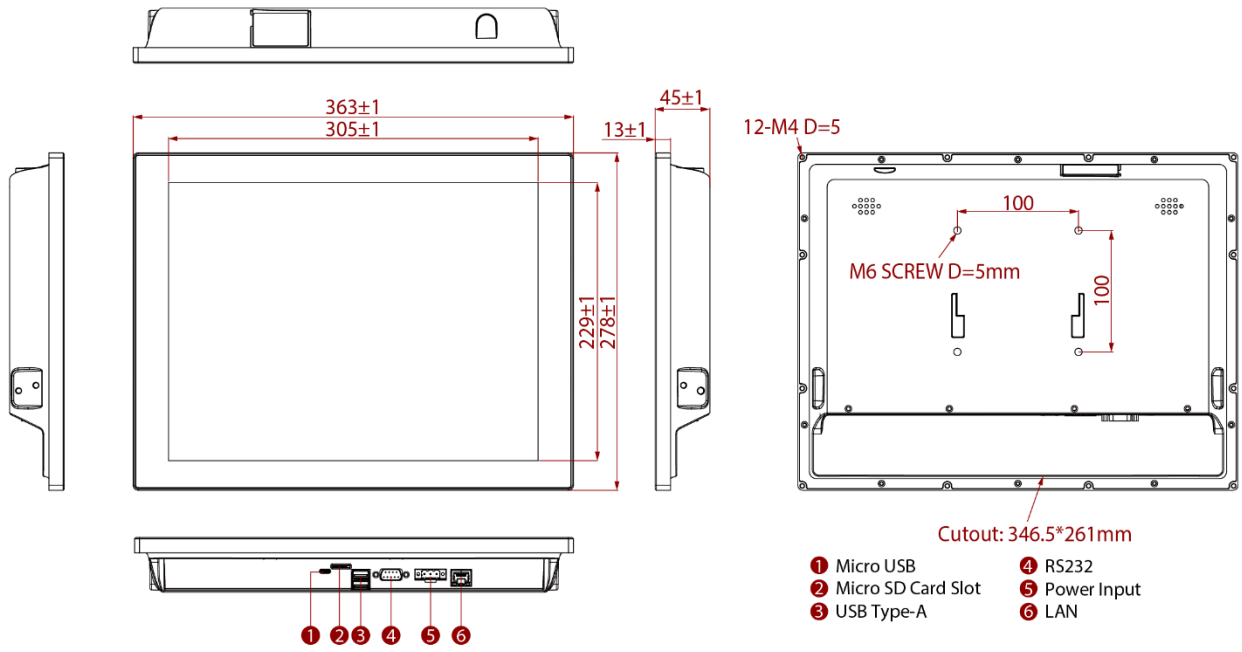
Unit: mm



- ① Micro USB
- ② Micro SD Card Slot
- ③ USB Type-A
- ④ RS232
- ⑤ Power Input
- ⑥ LAN
- ⑦ LED Light Bar

R15MG3S-PCC3-POE

Unit: mm

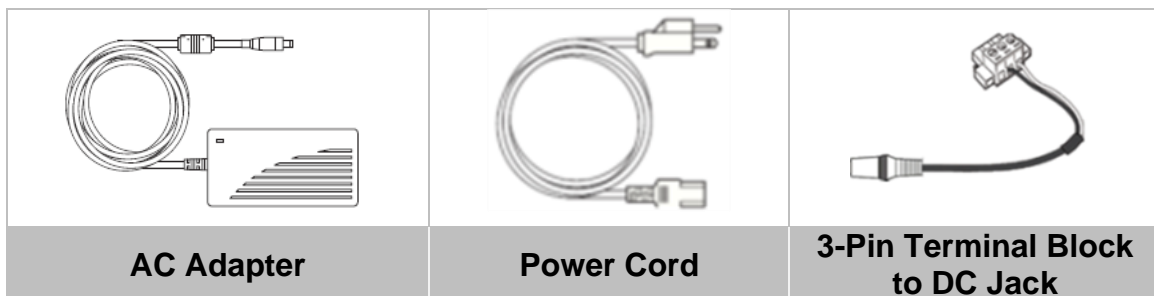


Chapter 2: Getting Started

This chapter provides information on how to connect the HMI device to the source of power, connector pinouts and the guideline to turn on/off the HMI device.

2.1 Powering On

2.1.1 AC Adapter Components



Safety Precautions:

- Do not use the adapter in a high moisture environment
- Never touch the adapter with wet hands or foot
- Allow adequate ventilation around adapter while using
- Do not cover the adapter with paper or other objects that will reduce cooling
- Do not use the adapter while it is inside a carrying case
- Do not use the adapter if the cord is damaged
- There are NO serviceable parts inside
- Replace the unit if it is damaged or exposed to excess moisture

While using the AC Adapter always:

- Plug-in the power cord to easy accessible AC outlet
- Plug-in the AC adapter to a grounded outlet



ALTERNATING CURRENT / MISE À LE TERRE!

This product must be grounded. Use only a grounded AC outlet. Install the additional PE ground wire if the local installation regulations require it.

*If you do not use a grounded outlet while using the device, you may notice an electrical tingling sensation when the palms of your hands touch the device.

Ce produit doit être mis à la terre. Utiliser seulement un cordon d'alimentation avec mise à la terre. Si les règlements locaux le requiert, installer des câbles de mise à la terre supplémentaires.

*Si vous n'utiliser pas une prise d'alimentation avec mise à la terre, vous pourriez remarquer une sensation de picotement électrique quand la paume de vos mains touche à l'appareil.

2.1.2 Power Considerations

The HMI device operates on external DC power. Use the AC adapter included in the package.



CAUTION/ATTENTION

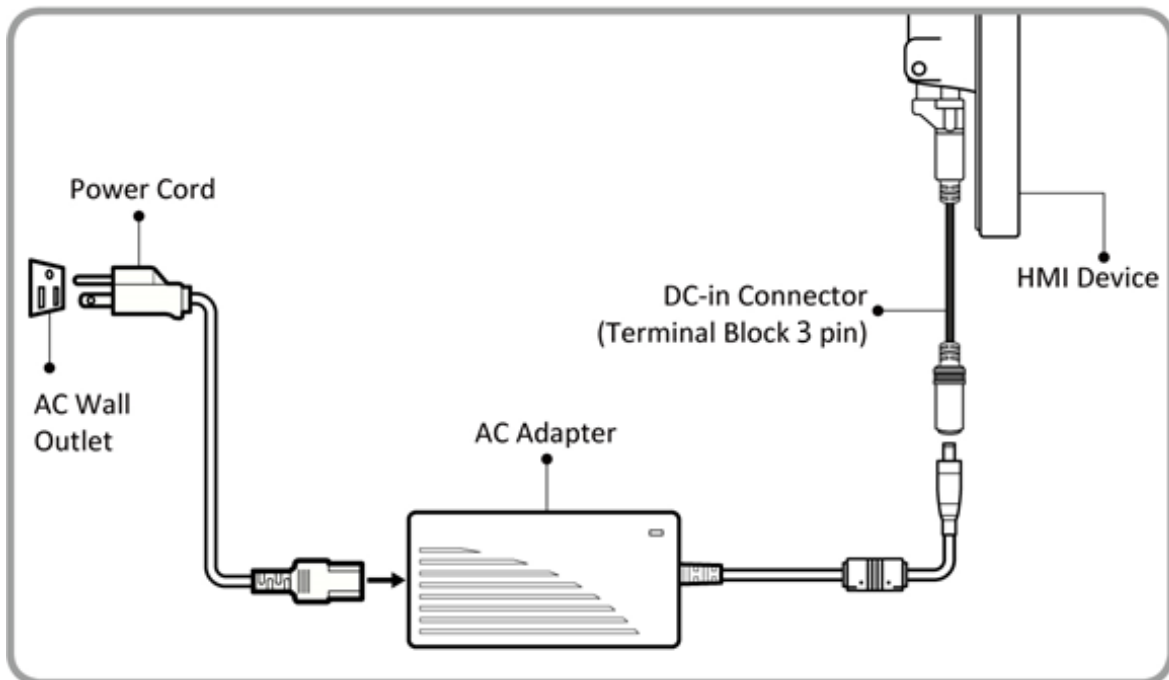
Use only the AC adapter included in your package (Rating: Output 12 V/ 4.16A). Using other AC adapters may damage the device.

Utiliser seulement le convertisseur AC inclu avec votre appareil (Puissance: Sortie 12 V/ 4.16A). Utiliser d'autres convertisseurs pourraient endommager l'appareil.

2.1.3 Connecting the Power

Installation Instruction:

1. Connect a 3-pin terminal block to the HMI connector.
2. Connect the other side of the terminal block to the AC adapter.
3. Connect the AC adapter to the power cord.
4. Plug in the power cord to a working AC wall outlet. The device will boot automatically.



Note:

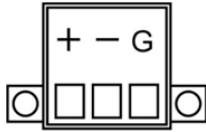
- Power cords vary in appearance by region and country.
- Based on the model, terminal block connector may be located either on the bottom or on the rear side of the HMI device.

2.2 Connector Pinouts

2.2.1 DC Input Connector

Terminal Block

DC power source input is a 3-pin terminal block connector. Power Input is 12V DC in.



Voltage

Minimum Voltage 11.4V
Maximum Voltage 12.6V
Maximum Current 4.2A

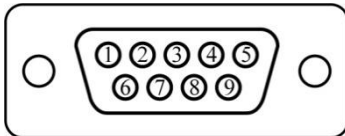


IMPORTANT:

Support PoE (optional), requires IEEE 802.3at 25W power input

2.2.2 Serial Port Connector

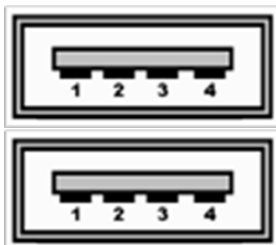
RS-232/422/485



Pin №	RS-232 (Default)	RS-422	RS-485
1	DCD	TxD-	D-
2	RXD	TxD+	D+
3	TXD	RxD+	NC
4	DTR	RxD-	NC
5	GND	GND	GND
6	DSR	NC	NC
7	RTS	NC	NC
8	CTS	NC	NC
9	RI	NC	NC

2.2.3 USB 2.0 Connector

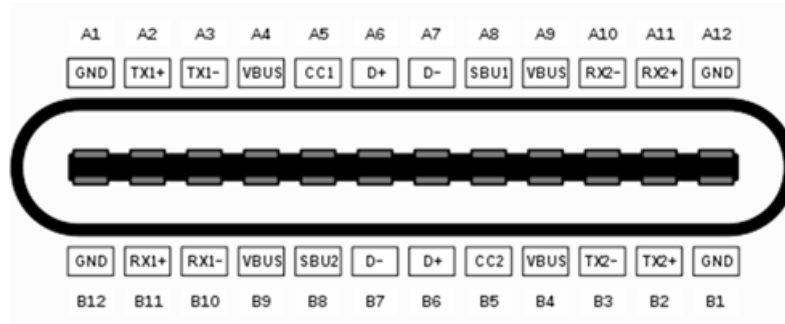
Use USB A Type (USB2.0) connector to connect your HMI device to other USB2.0 compatible devices.



Pin №	Signal Name	Pin №	Signal Name
1	+5V	2	Data-
3	Data+	4	GND

2.2.4 USB OTG Type-C Connectors

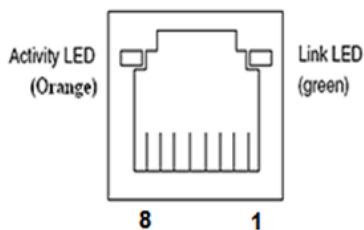
Pin Assignment and signal names for USB Type-C connector.



Pin №	Signal Name	Pin №	Signal Name
A1	GND	B1	GND
A2	TX1+	B2	TX2+
A3	TX1-	B3	TX2-
A4	VBUS	B4	VBUS
A5	CC1	B5	CC2
A6	D+	B6	D+
A7	D-	B7	D-
A8	SBU1	B8	SBU2
A9	VBUS	B9	VBUS
A10	RX2-	B10	RX1-
A11	RX2+	B11	RX1+
A12	GND	B12	GND

2.2.5 LAN (RJ45) Connector

The S-Series HMI supports one 10/100/1000 Mbps Ethernet interface for connecting to the internet.

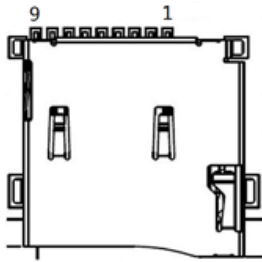


Pin №	Signal Name	Pin №	Signal Name
1	TX1+	2	TX1-
3	TX2+	4	TX2-
5	TX3+	6	TX3-
7	TX4+	8	TX4-

2.2.6 Micro-SD Card Slot

Insert microSD card to microSD card slot to extend the memory of your S- Series HMI Panel PC.

Pin assignment and connector description of micro-SD card slot.



Pin №	Signal Name	Pin №	Signal Name
1	DATA2	2	DATA3
3	CMD	4	+3.3V
5	CLK	6	GND
7	DATA0	8	DATA1
9	Card_Det		

2.2.7 Micro HDMI Connector (Optional)

The S-Series HMI has one Micro HDMI connector.



Pin №	Signal Name	Pin №	Signal Name
1	HP_DET_OUT	2	NC
3	HDMI_D2P	4	GND
5	HDMI_D2M	6	HDMI_D1P
7	GND	8	HDMI_D1M
9	HDMI_D0P	10	GND
11	HDMI_D0M	12	HDMI_CLKP
13	GND	14	HDMI_CLKM
15	HDMI_CEC_OUT	16	GND
17	H_CLK_OUT	18	H_DAT_OUT
19	HDMI_5V		

2.3 Turning On and Off the HMI Device

This section describes how to turn on and off the HMI device.

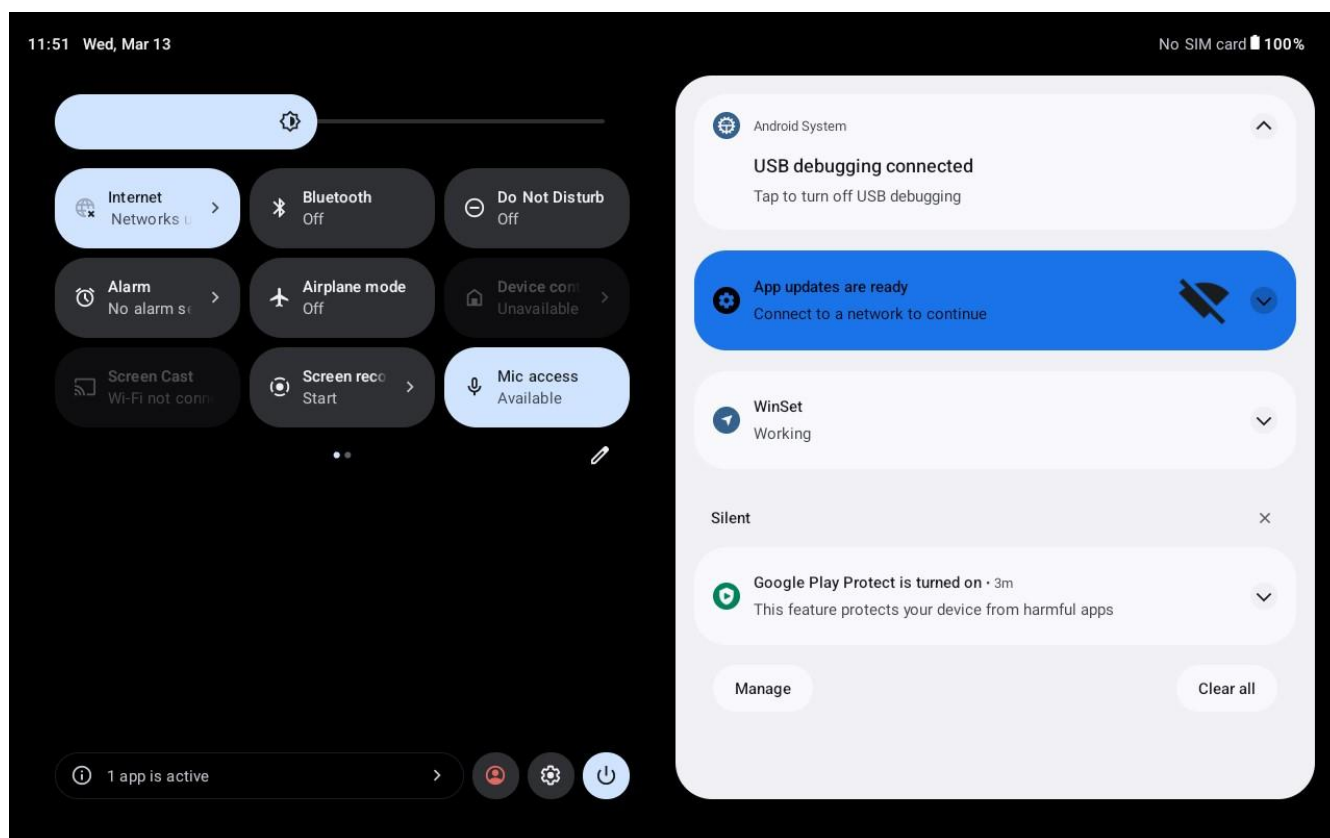
To **turn on** the HMI device:

1. Connect the HMI device to the source of power.
2. The unit is configured to **Power ON** when is connected to the power source.

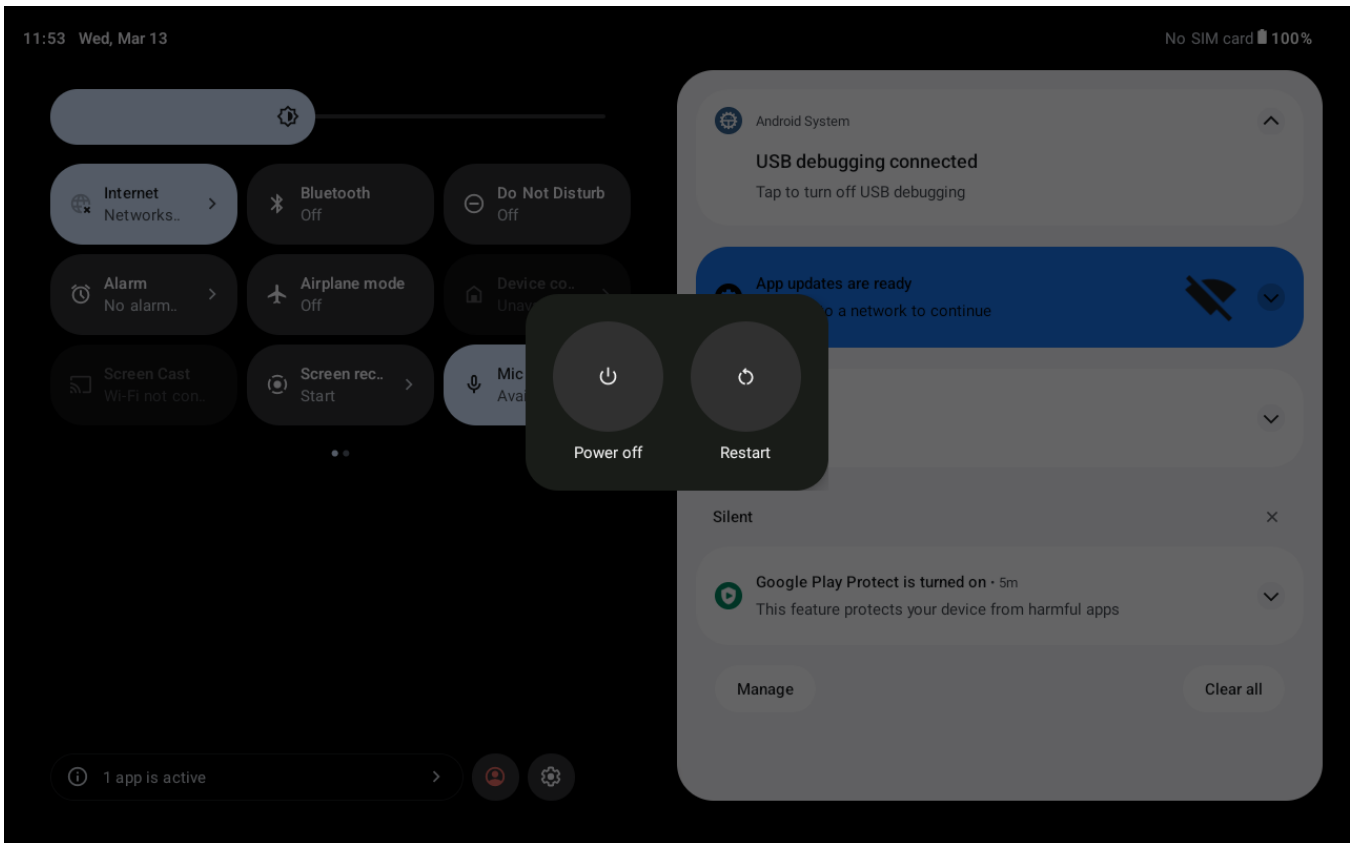
Refer to Chapter.2.1 Powering On of this User Manual for more details on how to power on the HMI device.

To **turn off** the HMI device:

1. Slide down to show the notification panel. Click **Power Menu**.





2. Choose **Power off** to shut down the HMI device.

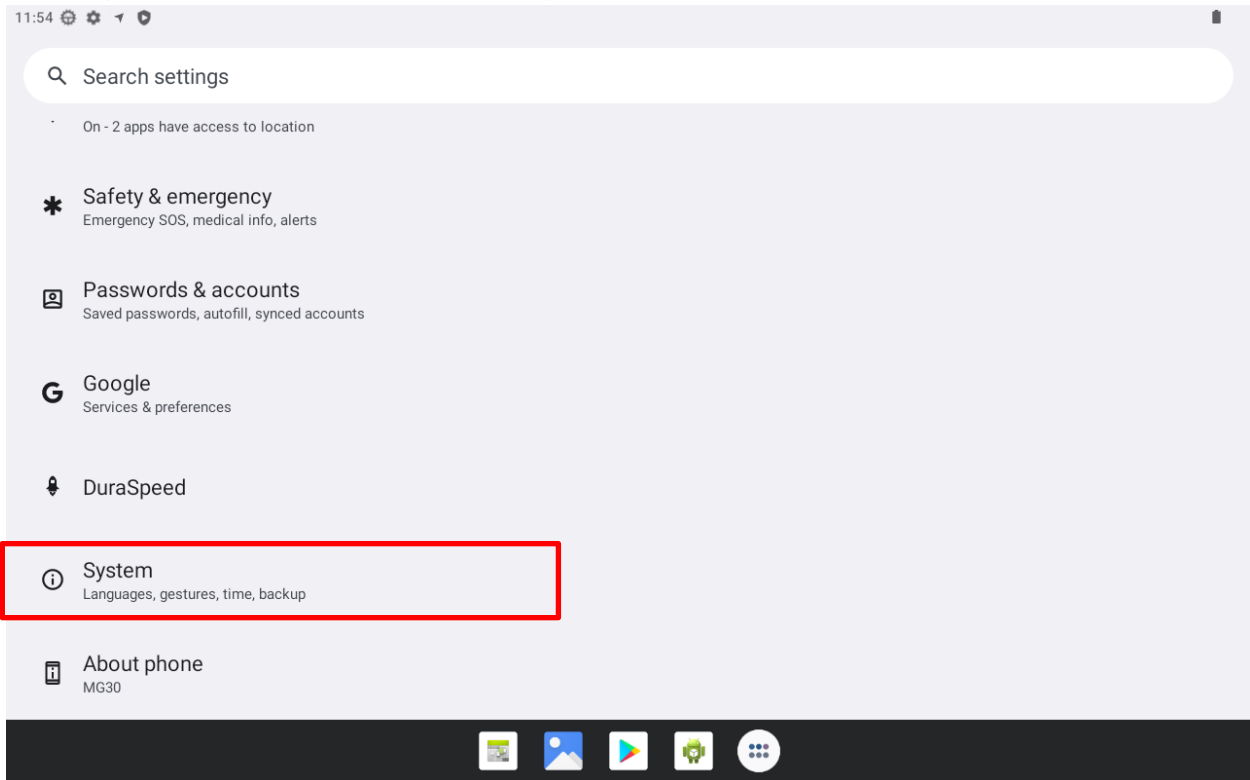


3. Disconnect the HMI device from the power source (if necessary).

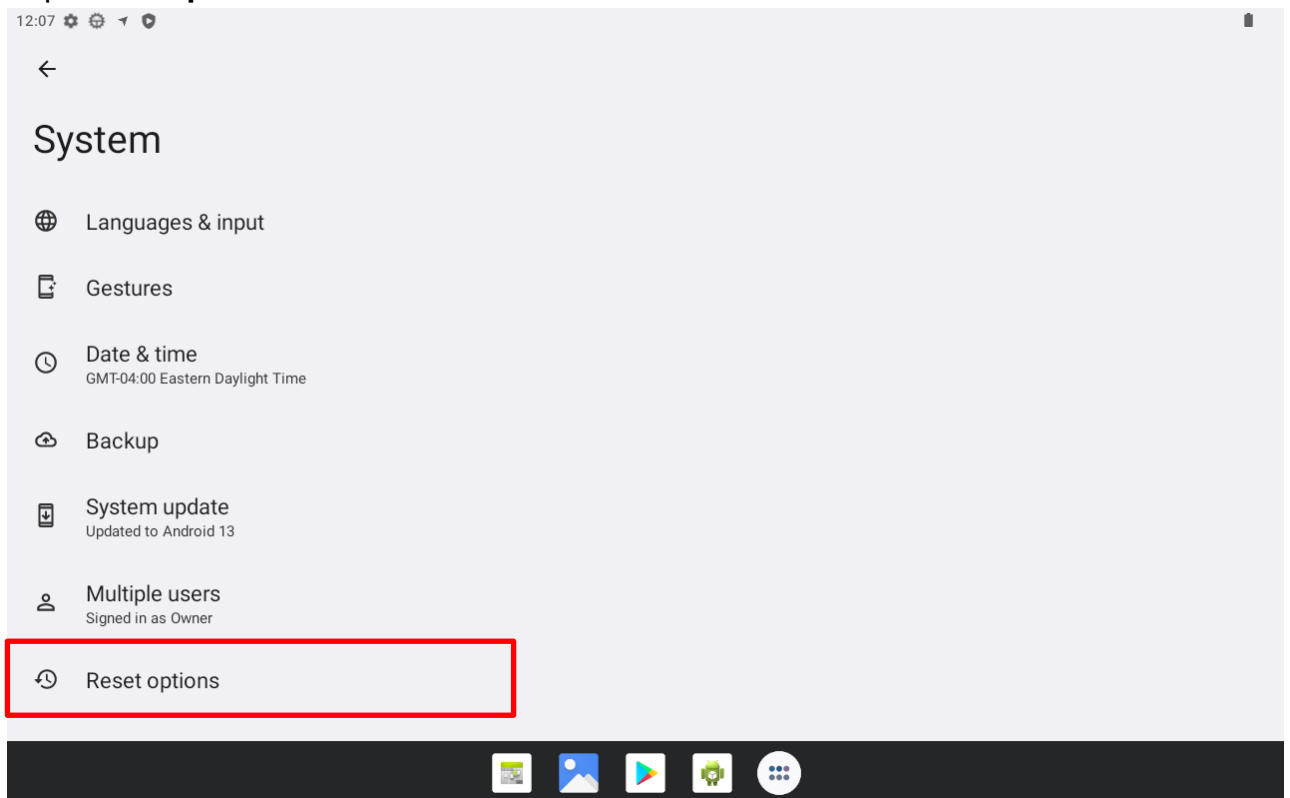
2.4 Resetting to Factory Defaults

To reset the device to factory defaults:

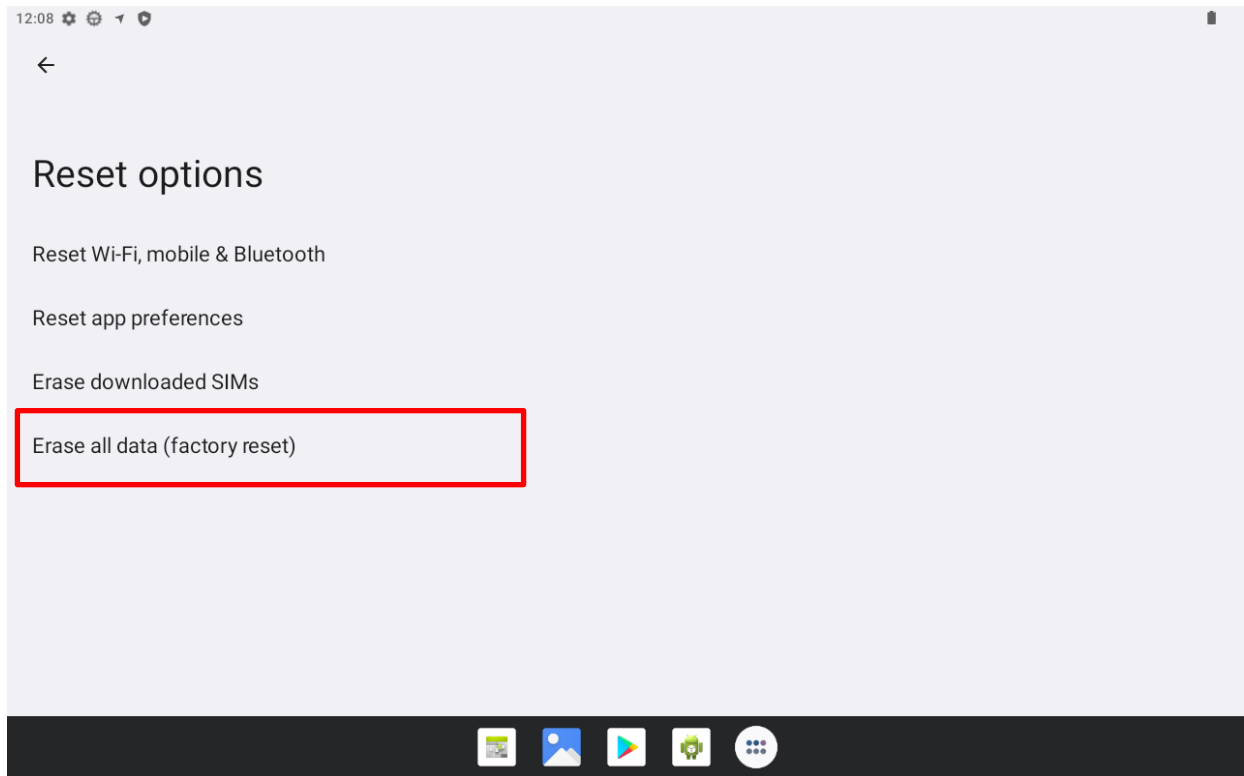
1. Slide from the bottom side, then open **Settings**  app.
2. Tap **System** , user can select to back up application data, Wi-Fi passwords and other settings to **Google** servers by tapping **Backup My Data**.



3. Tap **Reset options** .



4. Tap **Erase all data (factory reset)** to reset the HMI.



5. Read all the available information and then press **Erase all data** to erase all the data in storage such as music or photo.



Erase all data (factory reset)

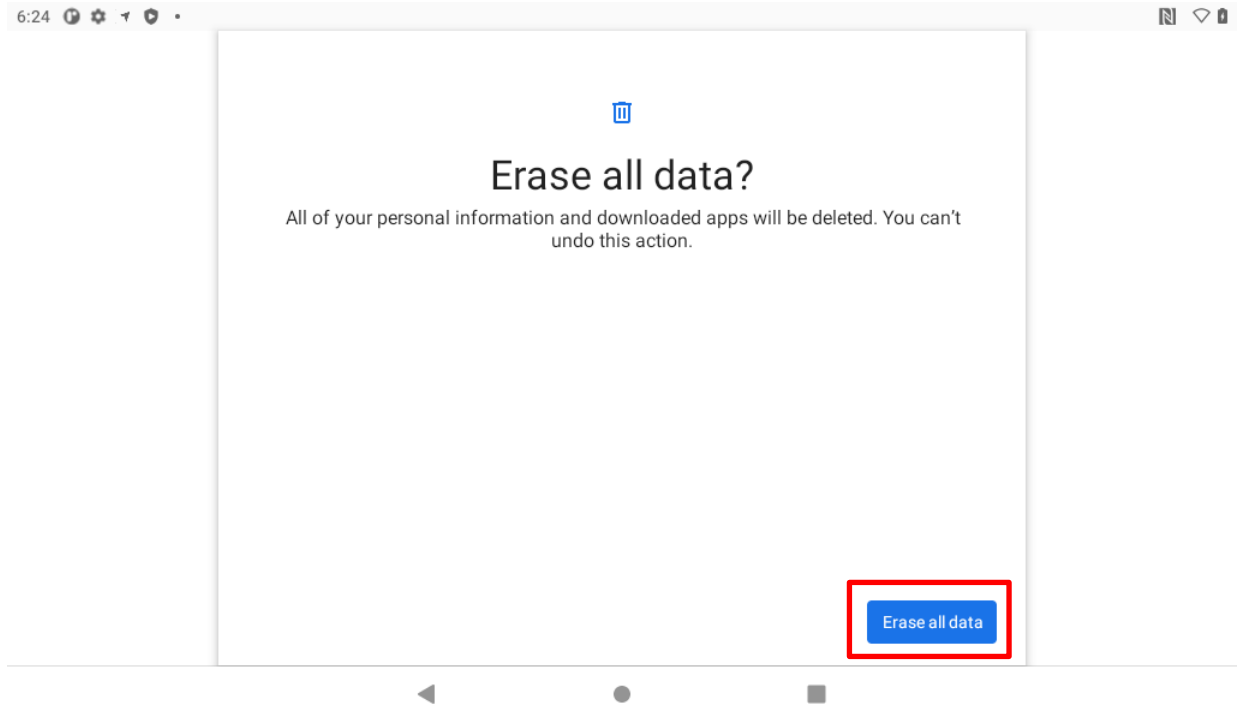
This will erase all data from your phone's **internal storage**, including:

- Your Google Account
- System and app data and settings
- Downloaded apps
- Music
- Photos
- Other user data

ERASE ALL DATA



6. Press **Erase all data** to erase all your personal information and downloaded apps.









Chapter 3: Using the HMI Panel PC

This chapter explains how to use the buttons, status icons, and controls of the S-series HMI running on Android 13 operating system and provides instructions on entering and capturing data.

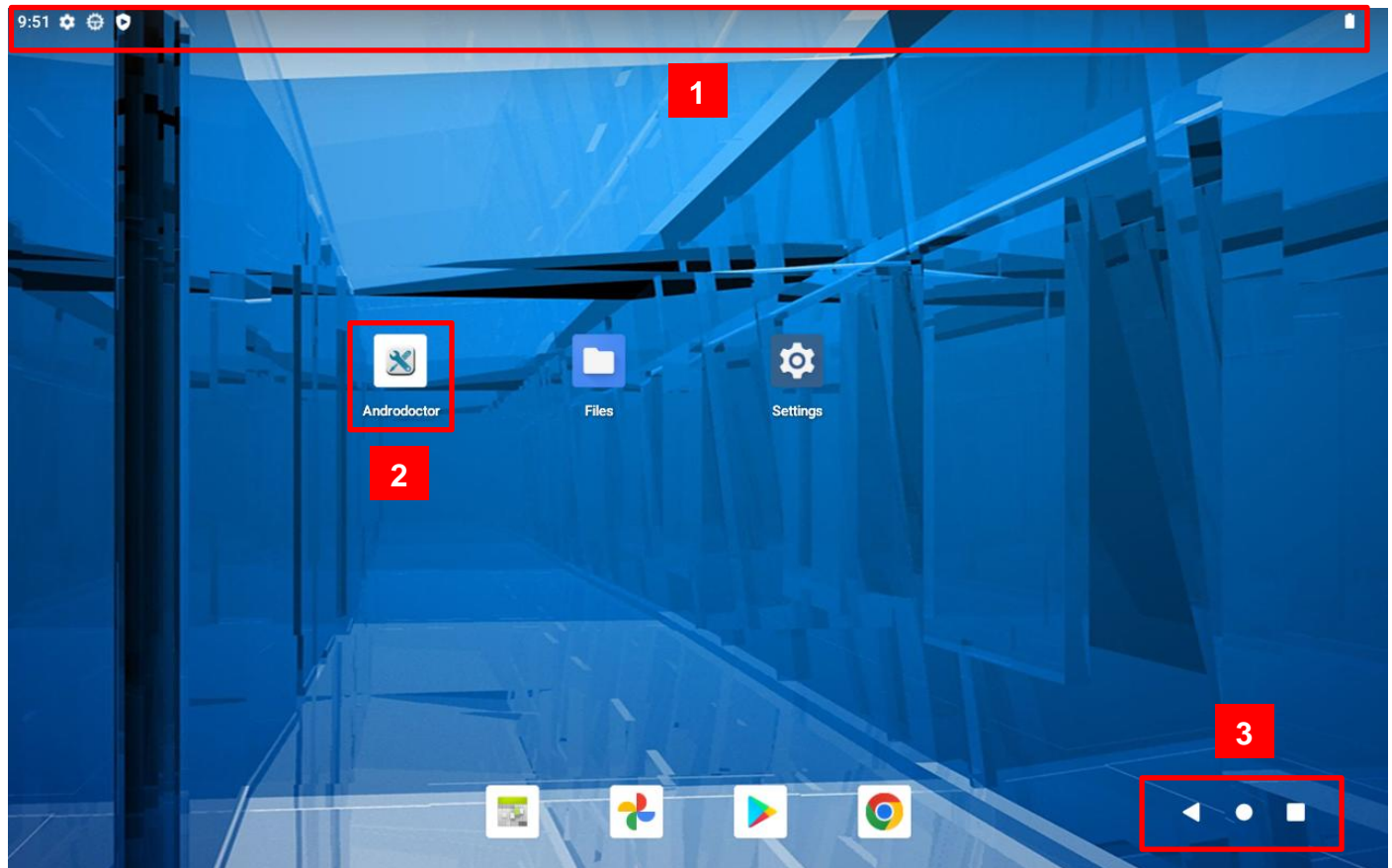
3.1 Using the Touch Screen




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 fingers on the screen and pinching them together

3.2 Using the Home Screen

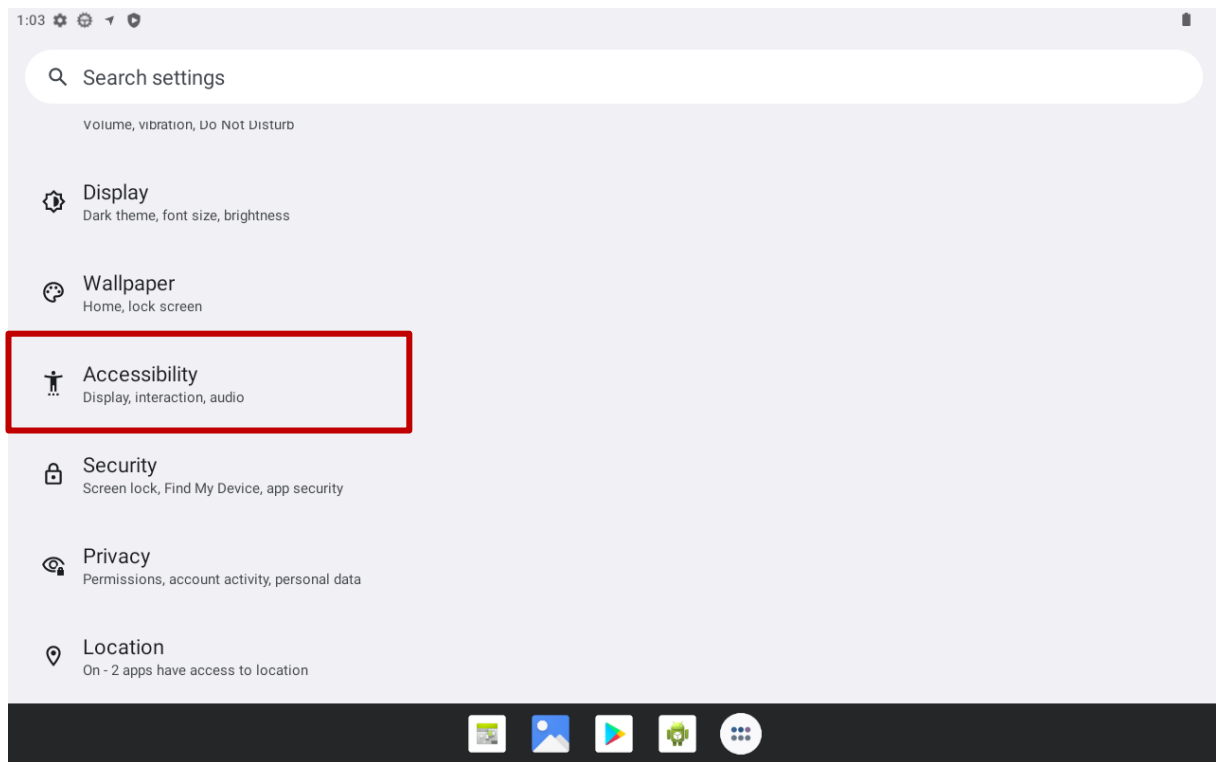
Home screen is the starting point to access all the features on your HMI Device. It displays application icons, widgets, shortcuts, and other features. User can personalize the home screen. See “*Personalizing home screen*”.




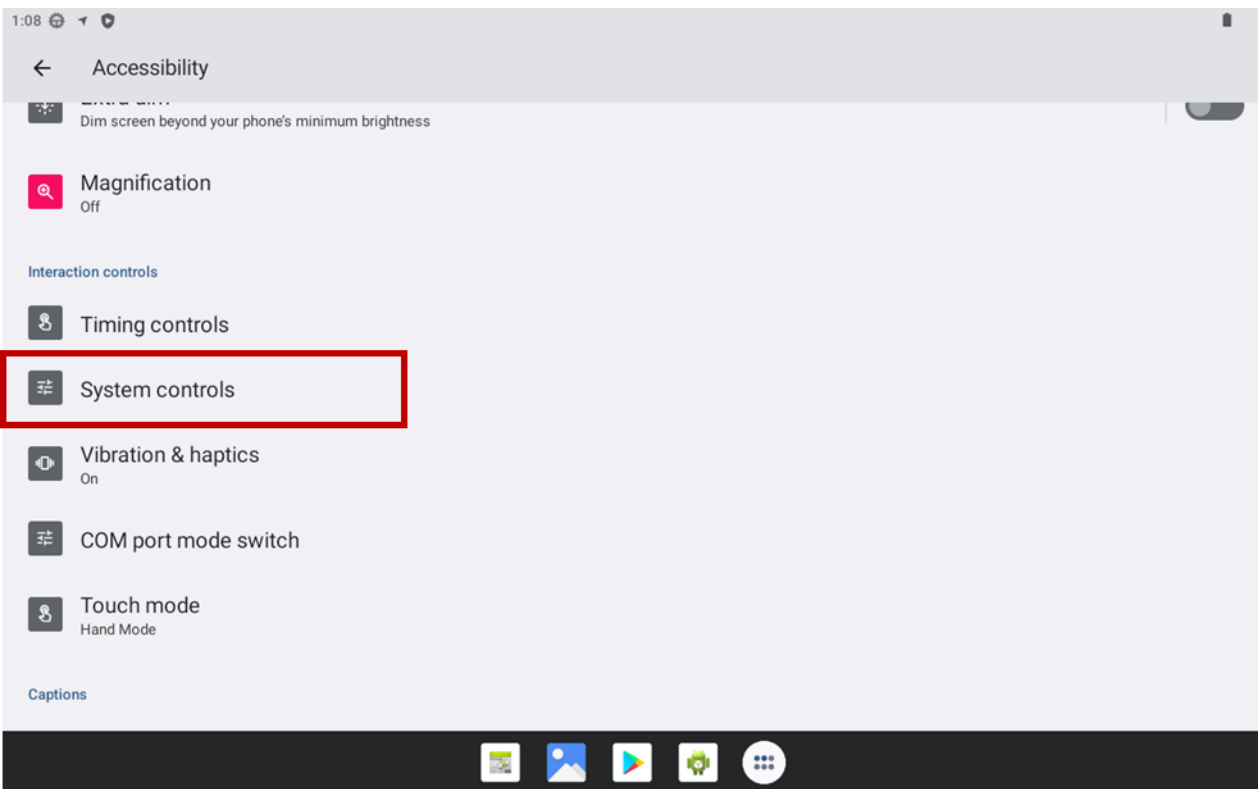
No.	Description
1	Status Bar – Shows the time, signal strength, battery status, and other notifications. It also displays notification icons.
2	Application – Shows applications that user can open directly on the home screen.
3	 Back Opens the previous screen you were working in, even if it was in a different app. Once you back up to the Home screen, you can't go back any further.
	 Home Returns to the main Home screen. To get suggestions based on the screen you're currently viewing, touch & hold this button.
	 Overview Show apps you've used lately and let you switch between them. Double-tap to jump between the current app and the previously used one, and back again.

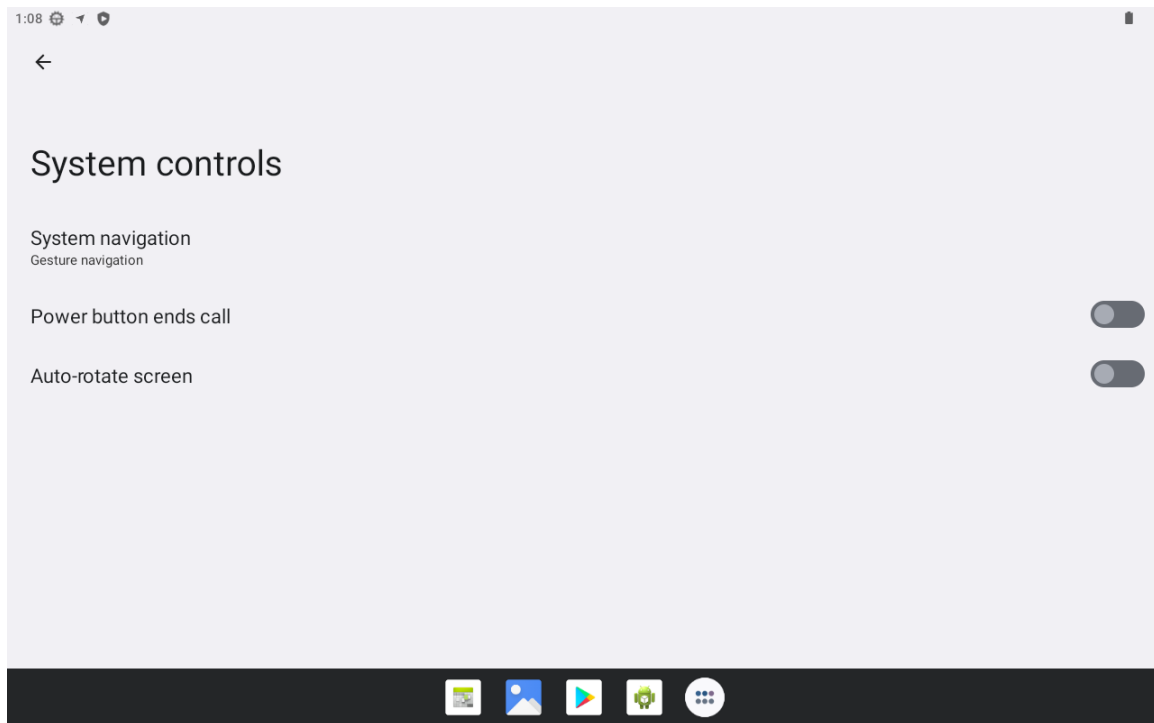
3.2.1 Opening 3-Button Navigation

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

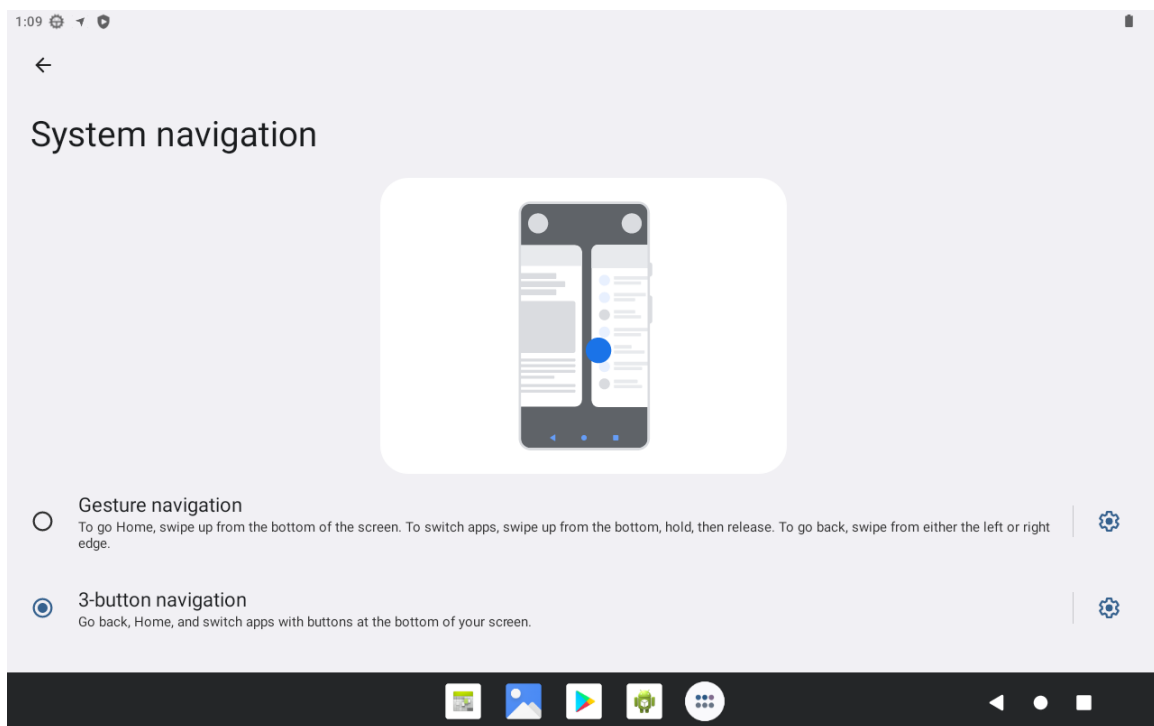


2. Tap **System controls**, and select **System navigation** .






3. In **System navigation**, the user can choose between **Gesture navigation** or **3-Button navigation**. When **3-Button navigation** is selected, the buttons will appear in the bottom-right corner of the screen.

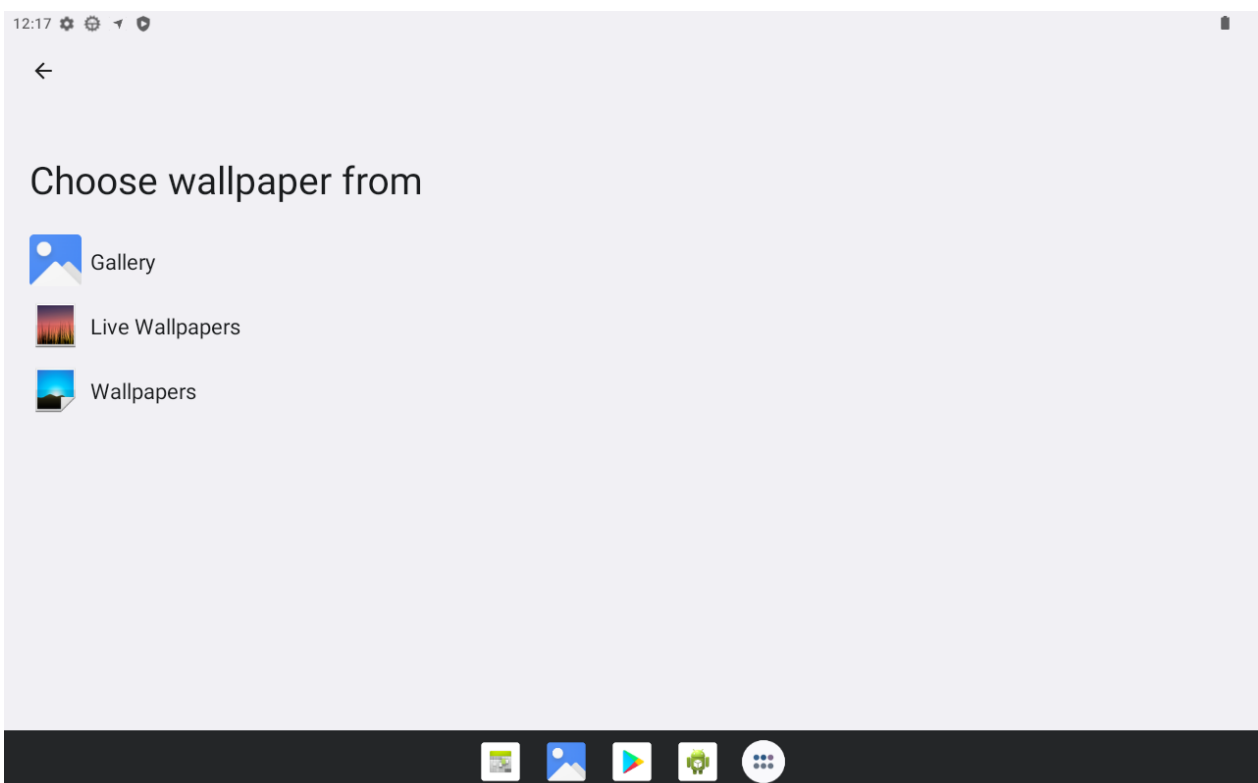
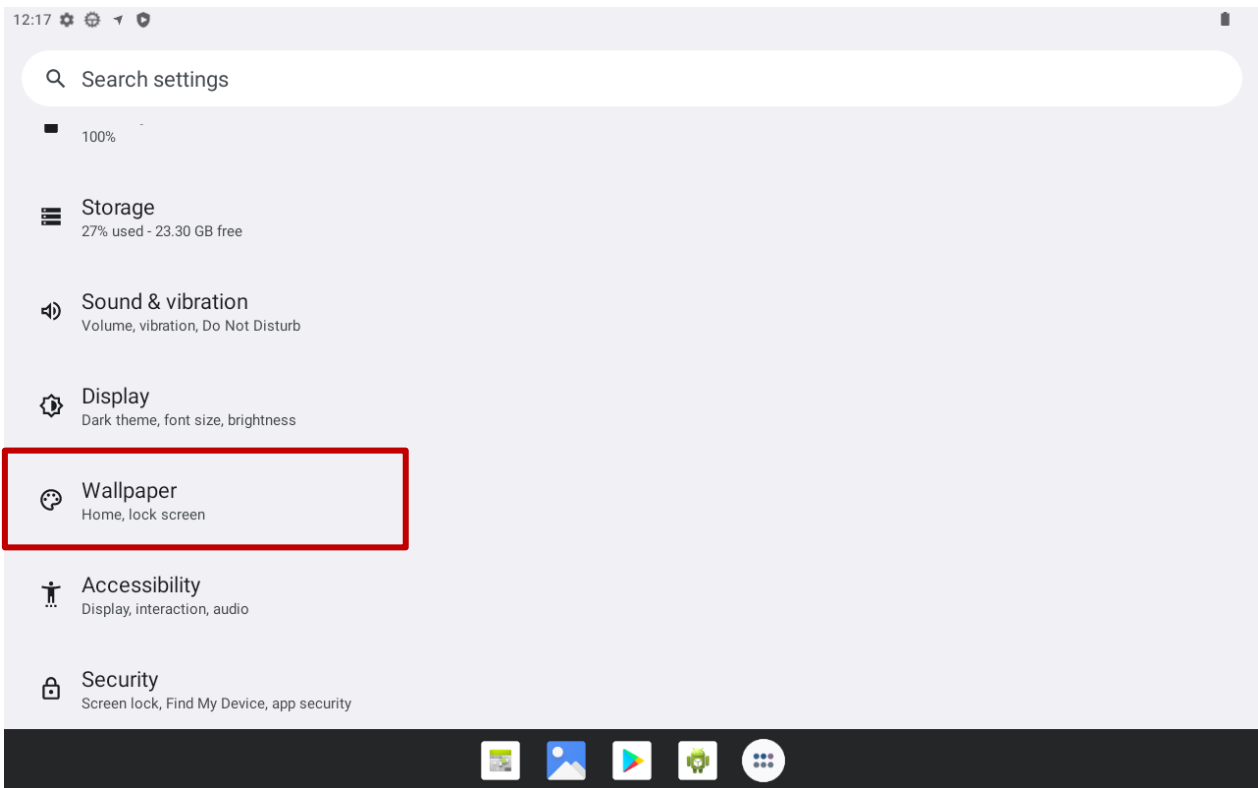


3.2.2 Personalizing Home Screen

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.

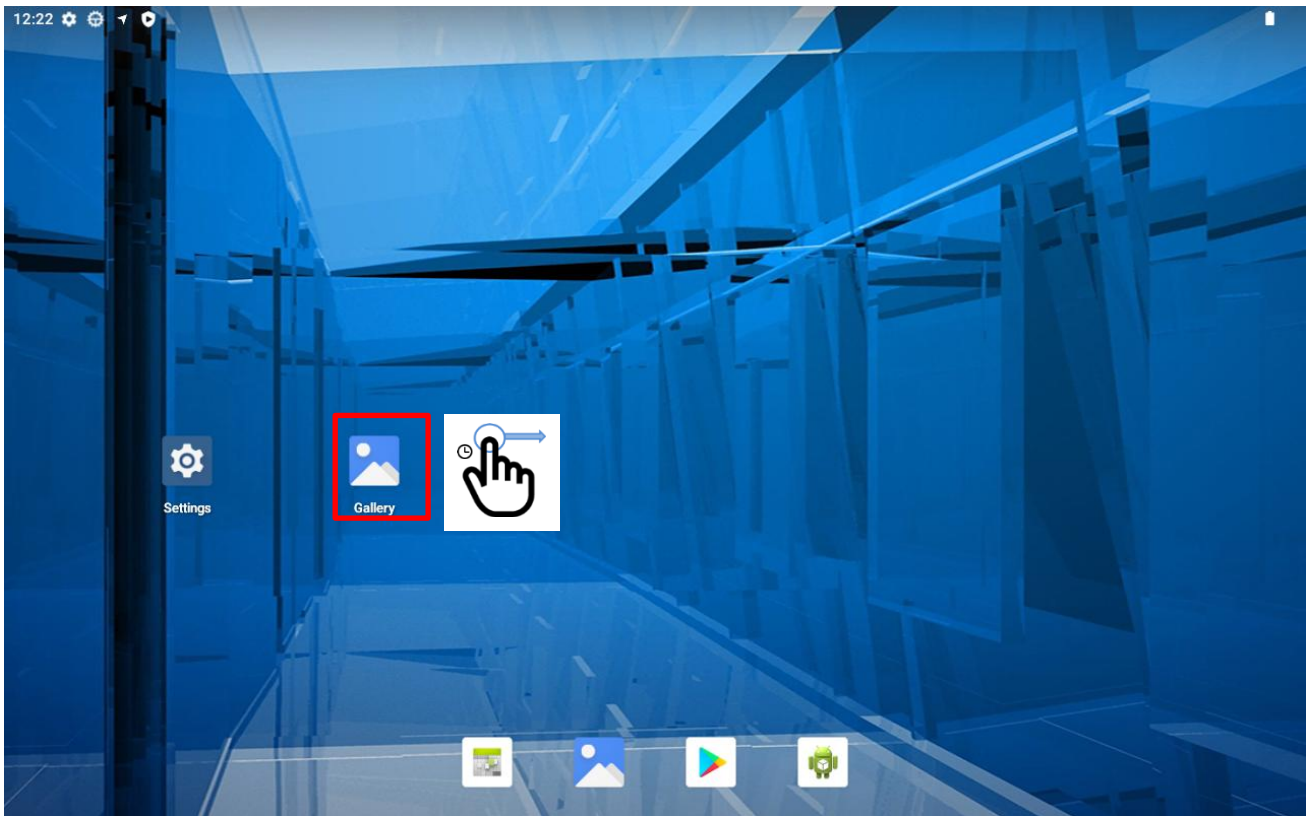
To change wallpaper on the HOME SCREEN:

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

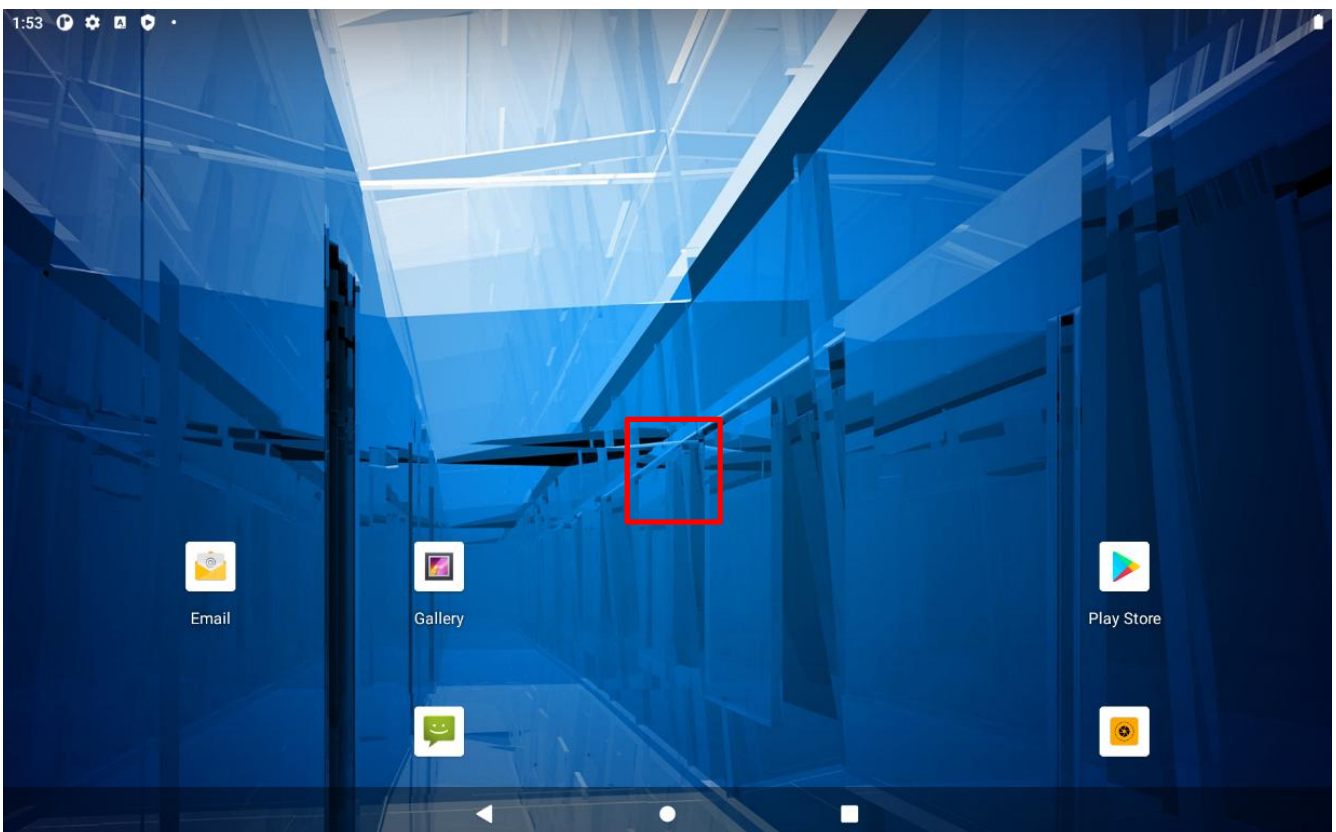


To move an item on the HOME SCREEN:

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

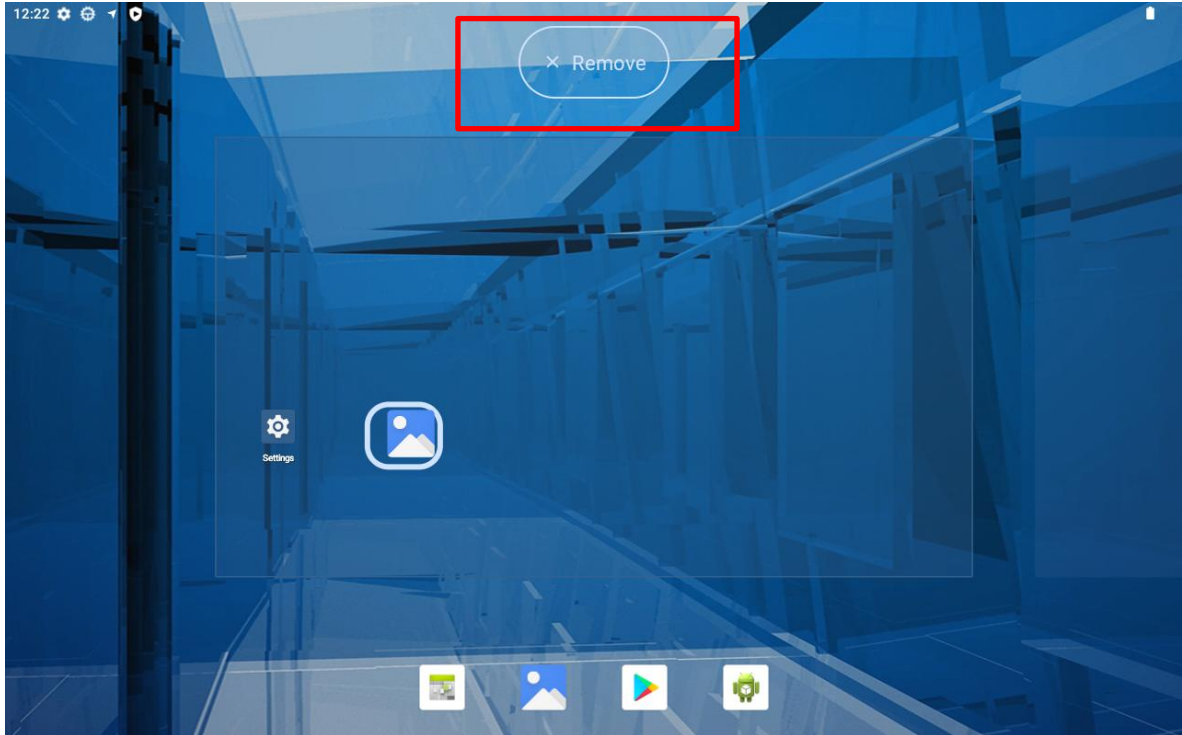


2. Place the item where you want to put it and lift your finger.



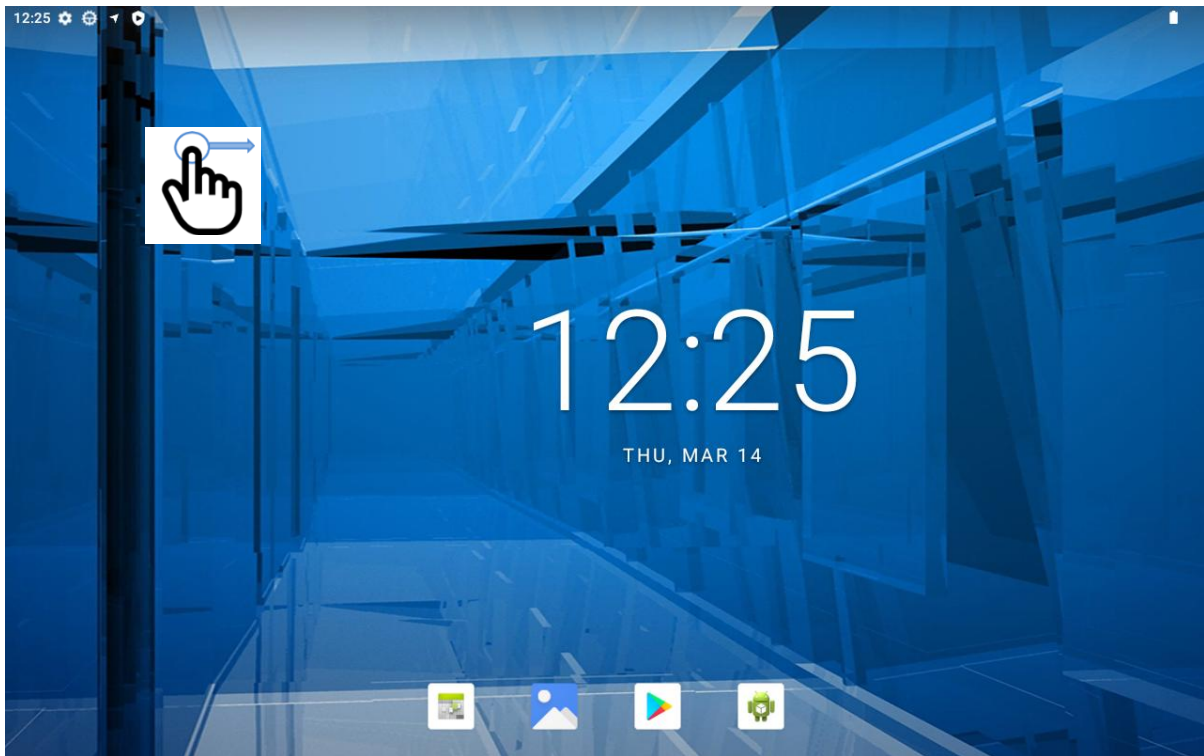
To remove items from the HOME SCREEN:

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.

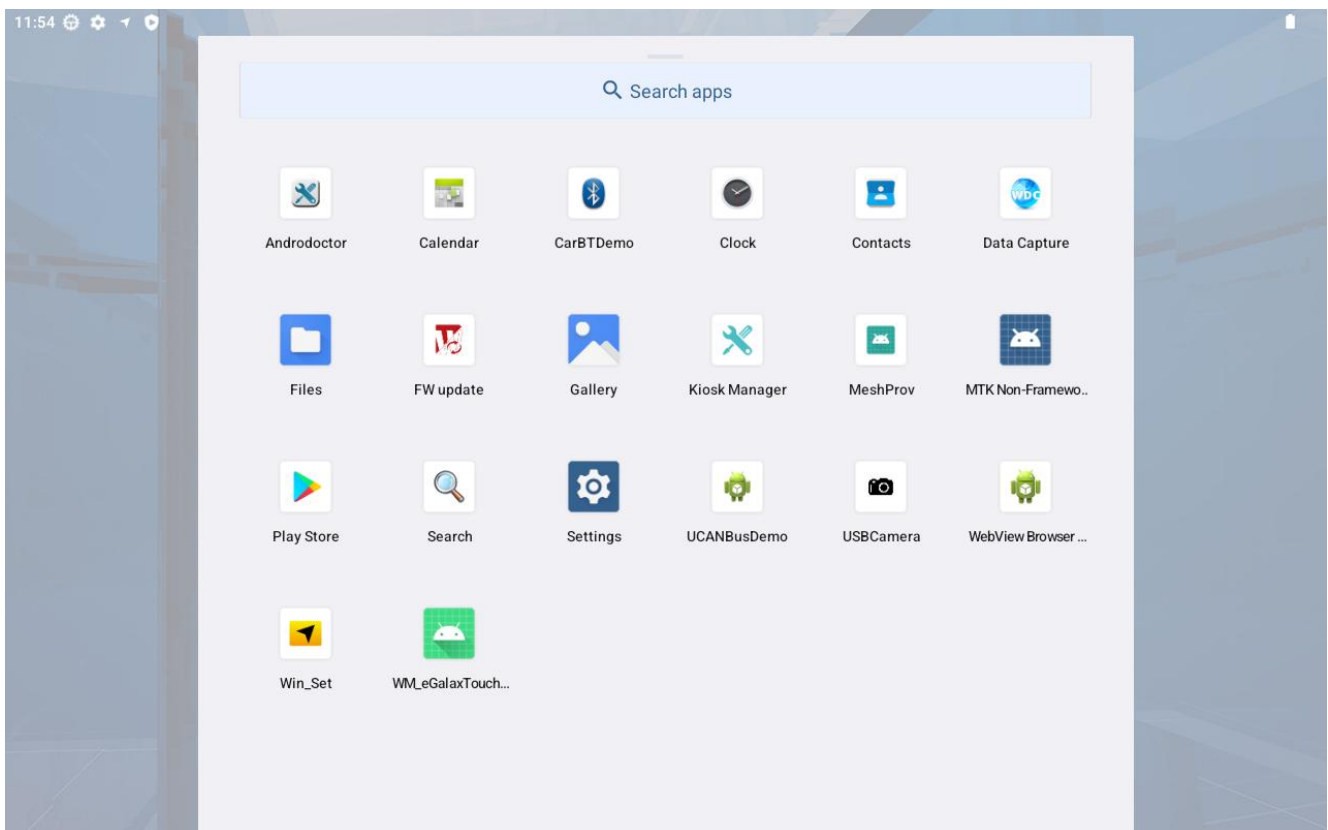


3.2.3 Viewing other parts of the Home Screen

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.

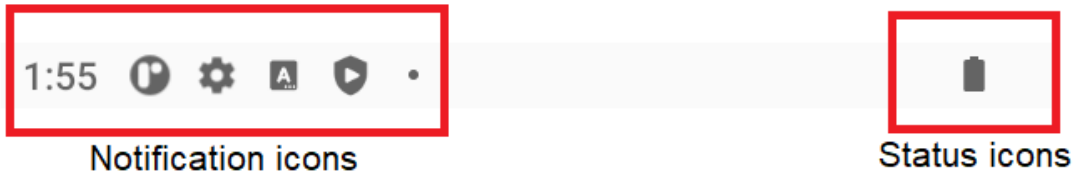


2. Swipe from the bottom of the main desktop, to view the entire APPS on the device.



3.3 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.



3.3.1 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		

3.3.2 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 Wi-Fi 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:

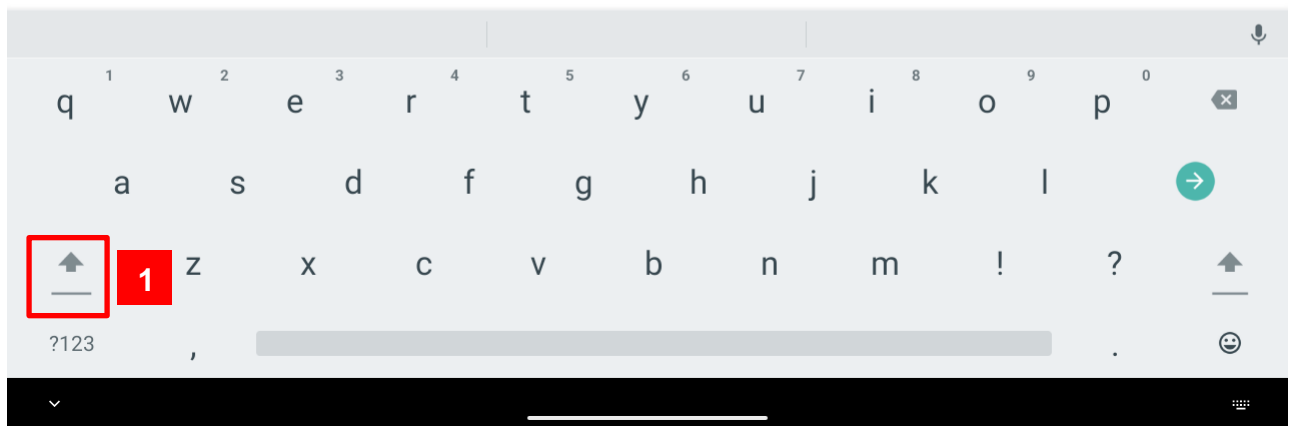
	Connected to GPRS mobile network		Bluetooth is on
	Connected to 1xRTT mobile network		Connected to a Bluetooth device
	Connected to EDGE mobile network		No SIM card installed
	Connected to 3G mobile network		Vibrate mode
	Connected to 4G mobile network		Ringer is silenced
	Mobile network signal strength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

3.4 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. 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.




3.4.1 Entering Text

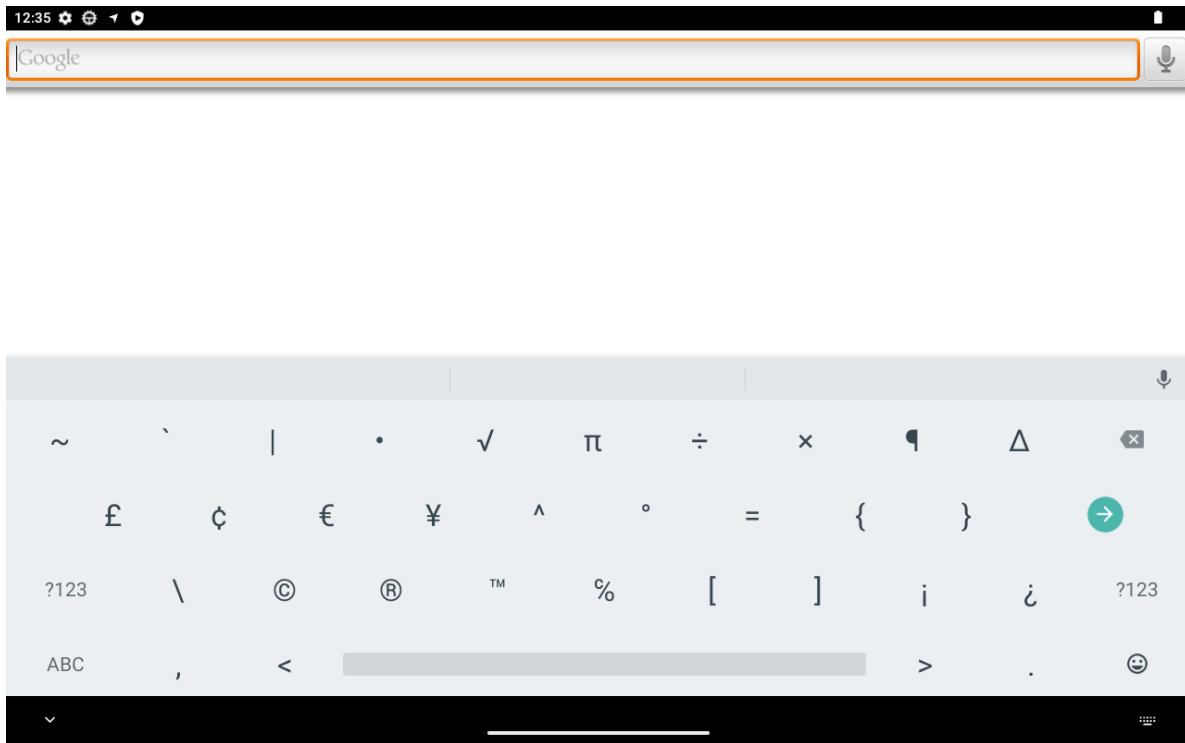
1. Open a text field, in this example we used Messaging  to compose a message. The On-Screen Keyboard opens.



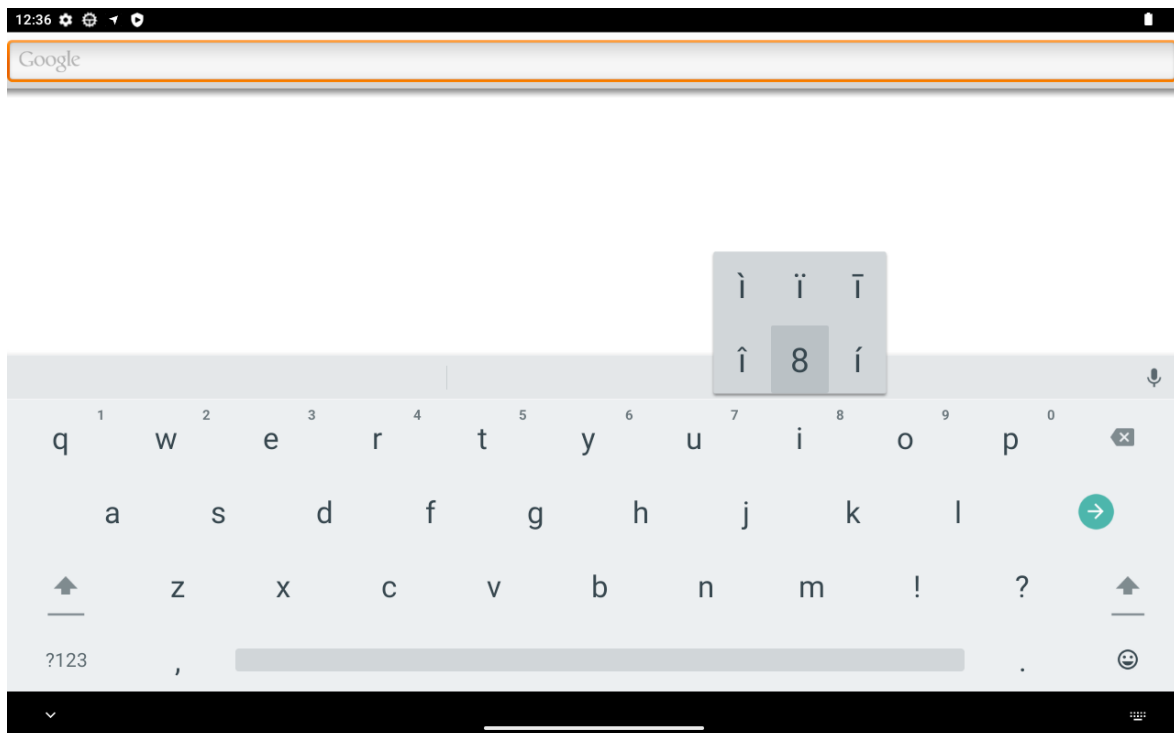
No.	Description
1	Capitalize – Tap once to capitalize the alphabet.

**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”](#).*

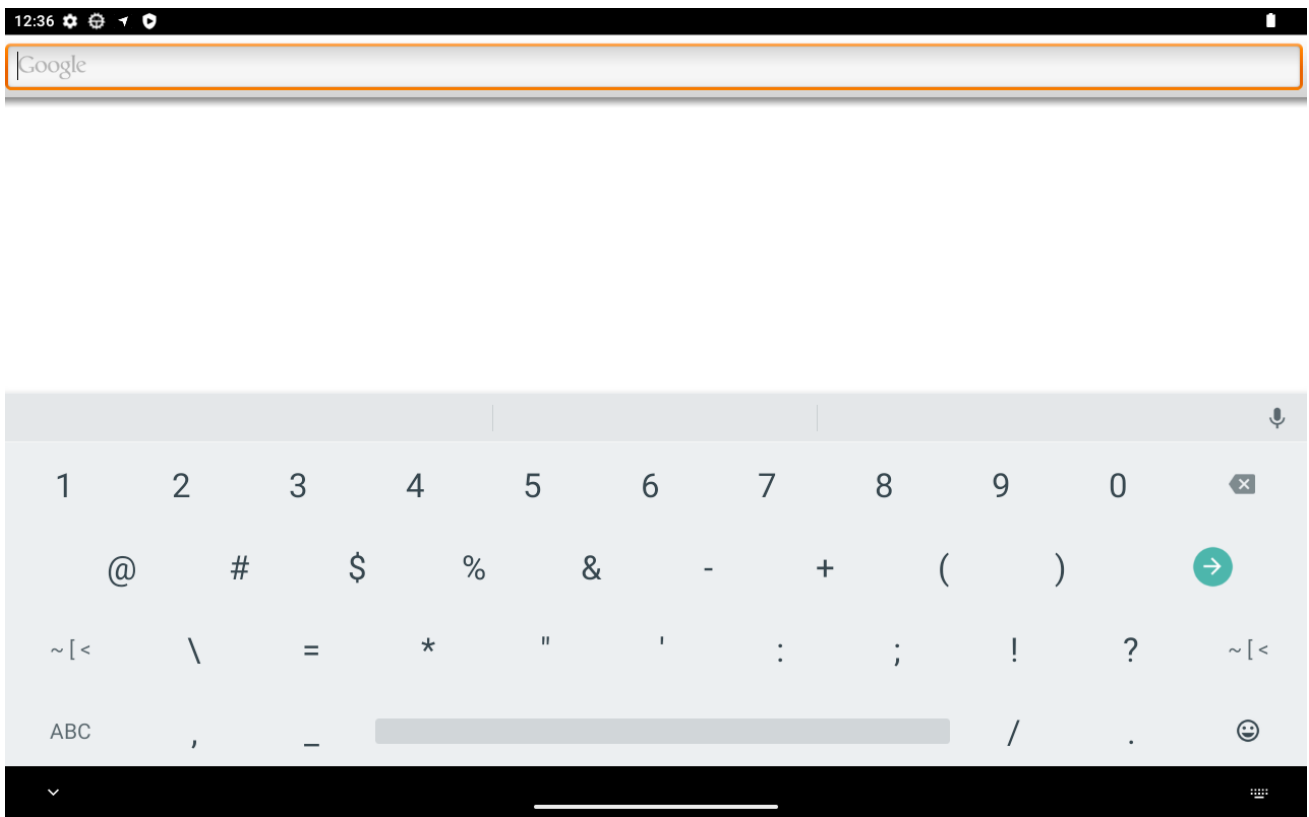
2. Tap the delete key  to erase characters to the left of the cursor.
3. Tap  to enter numbers. Tap  to return to letters.




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.




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

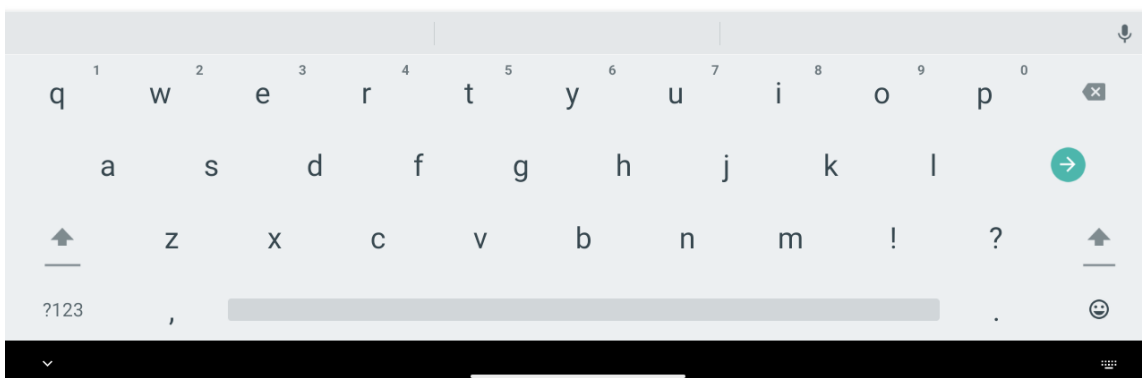
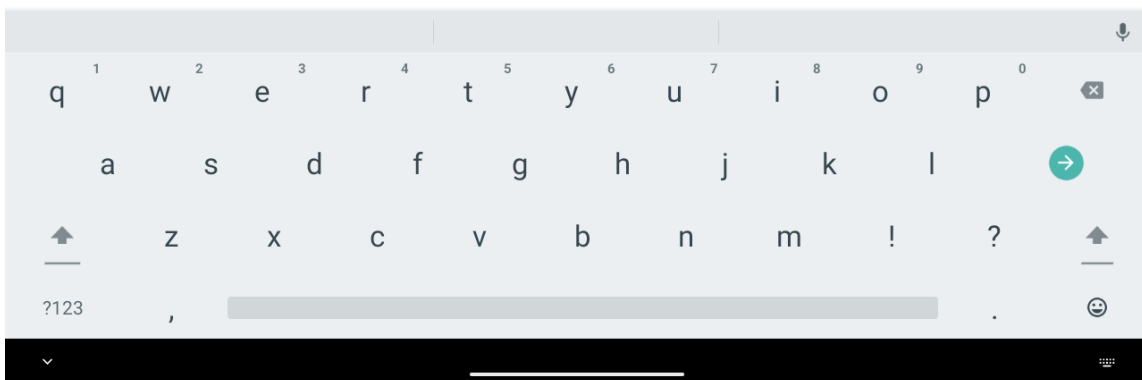


6. To close the On-Screen keyboard, press the back button  on the top.

3.4.2 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 green, with a tab at each end of the selected word.
3. Drag selection tab to expand or reduce the range of the selected text.

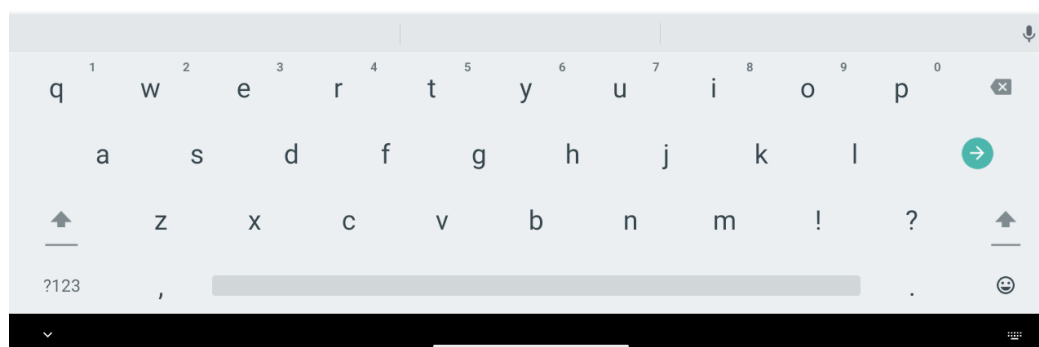
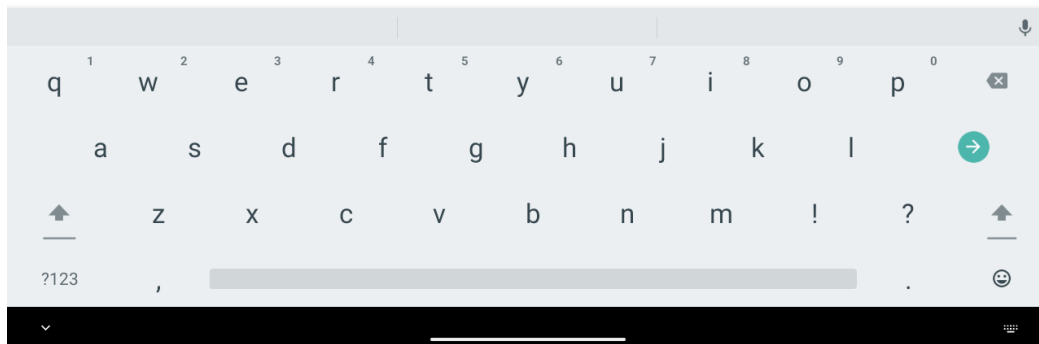


To Cut or Copy Text:

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:

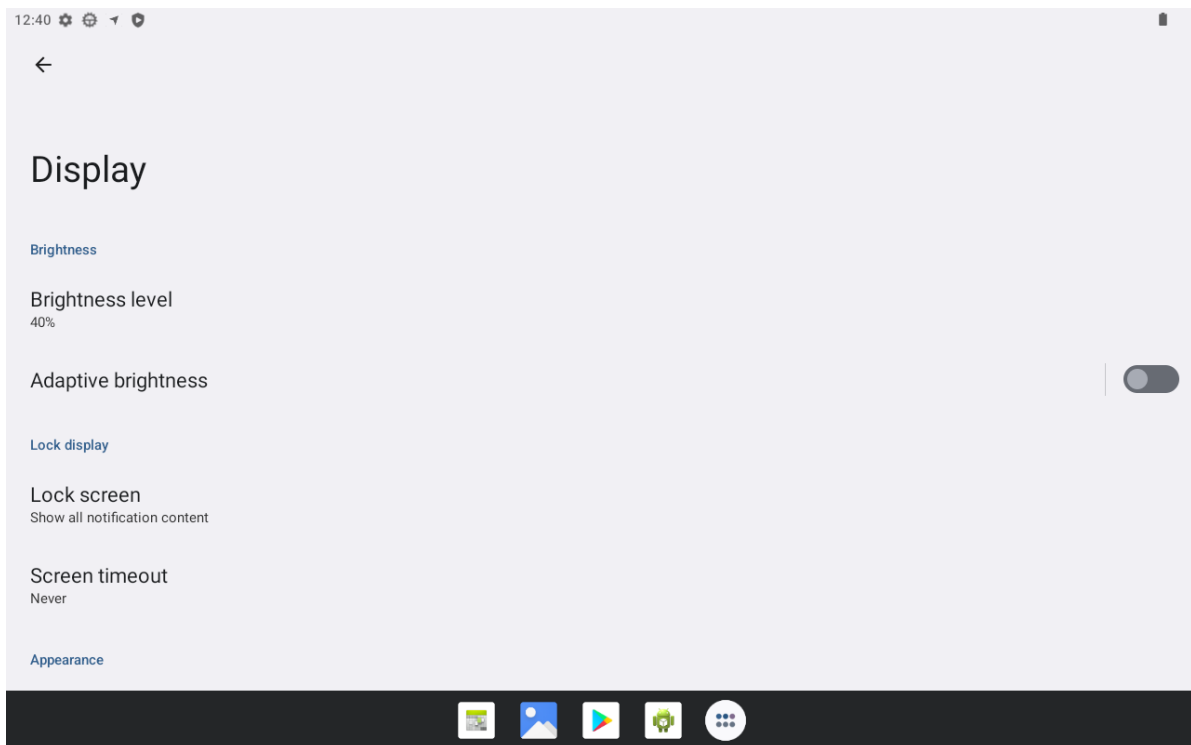
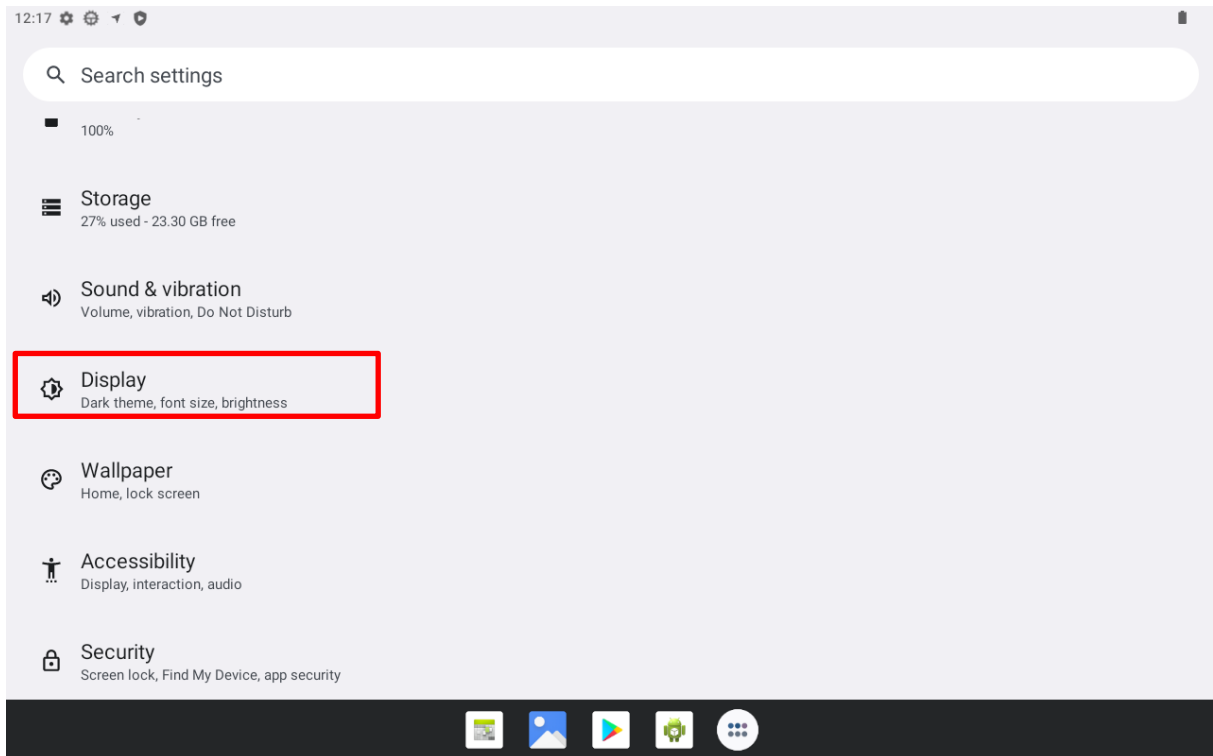
1. After Cut or Copy the text, see the section above "To Cut or Copy Text".
2. Place the cursor in the text field where you want to paste the text, user can paste text that you copied from one application into a text field in any application.
3. Tap and hold into the location that you want to paste.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

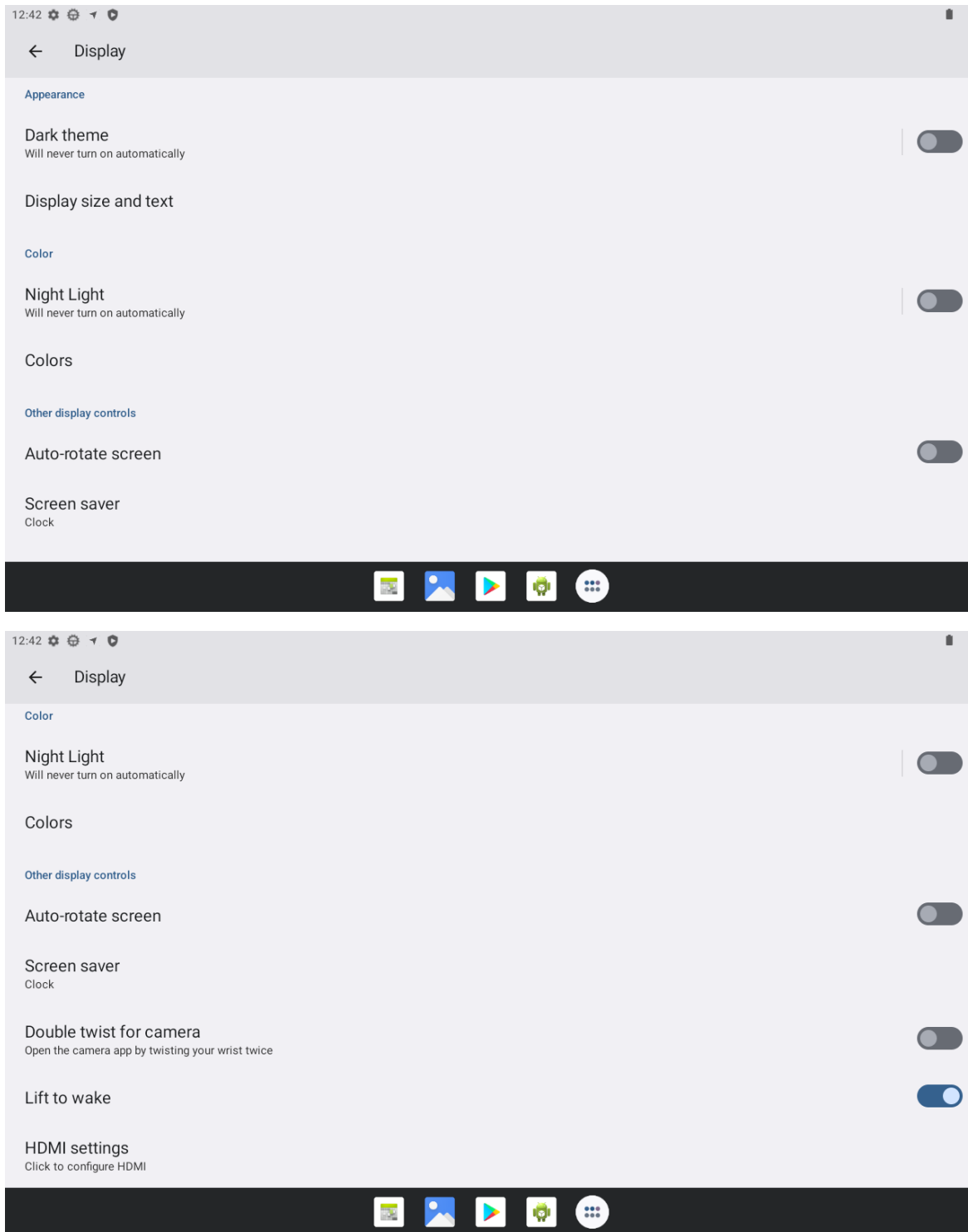


3.5 Display Settings

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.
- **Screen timeout** – to set up the device's sleep mode after the specified period of inactivity
- **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 HMI is docked and/or sleeping, turn screen saver on
- **Lock screen** – to control all notification content

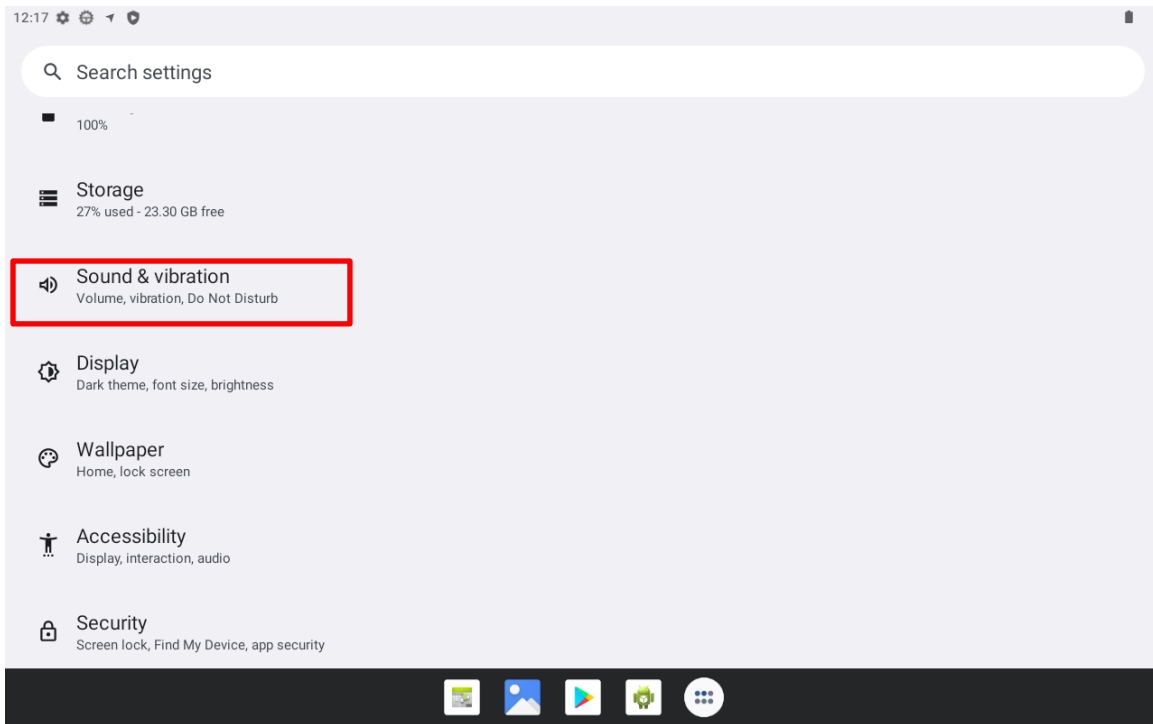
3.6 Audio Profile Settings

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

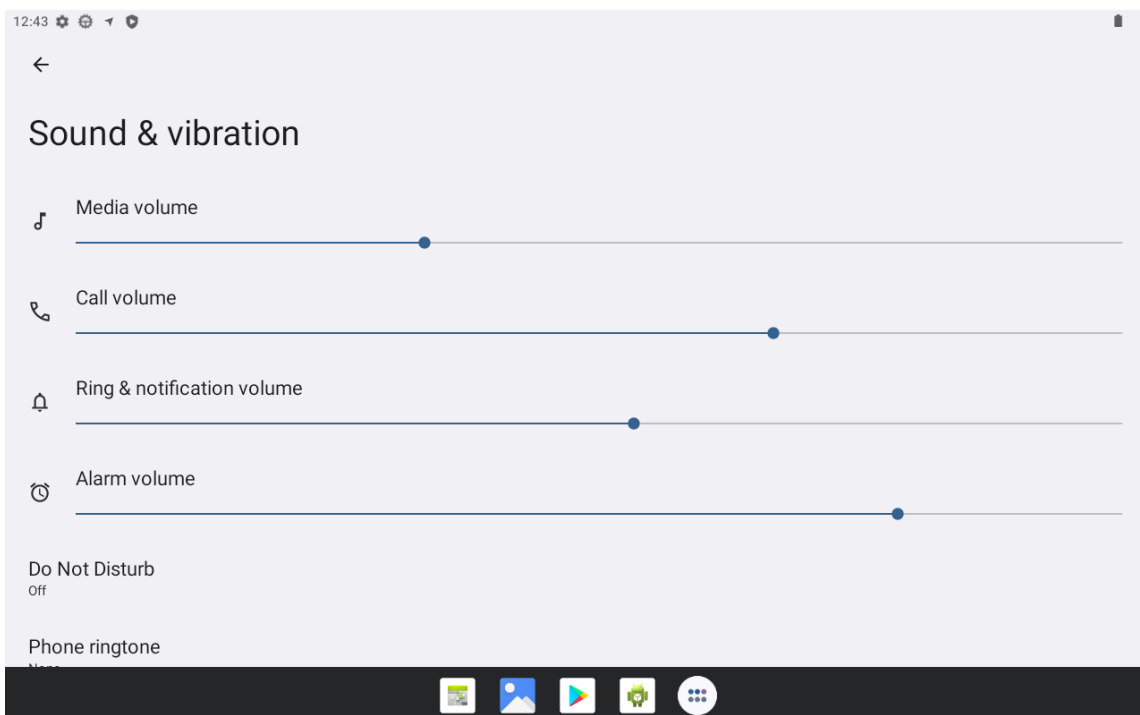
3.6.1 Sound Settings

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

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



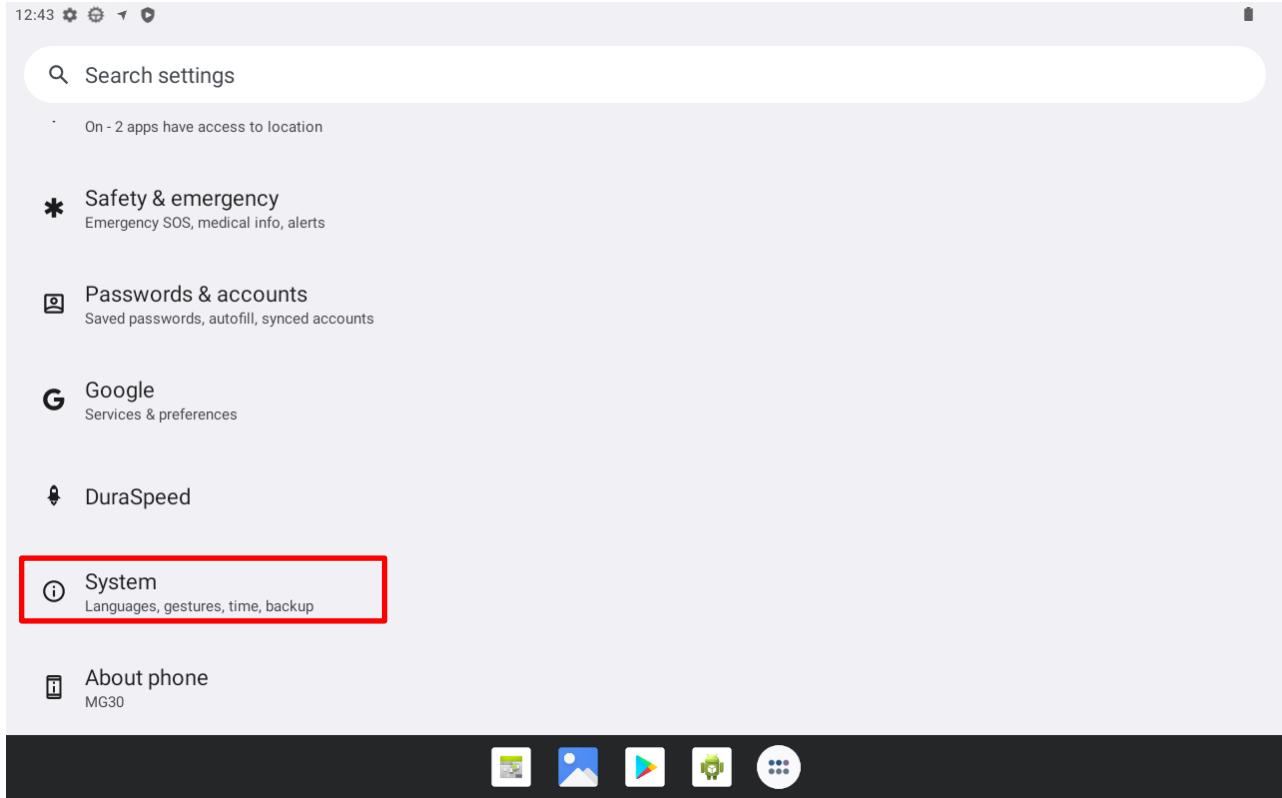
2. In the **Sound** user can select Media volume, Call volume, ring volume, alarm volume and other sound settings.



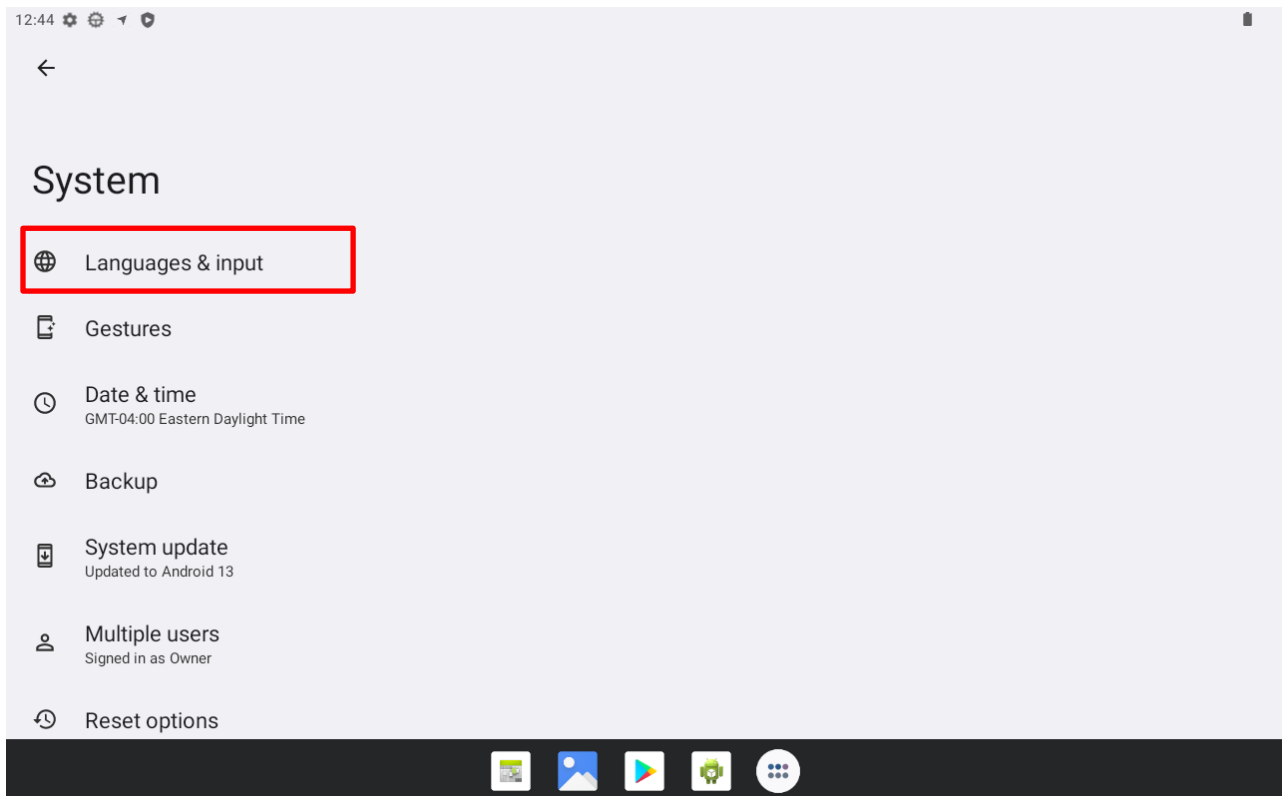
3.7 Language and Keyboard Settings

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

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

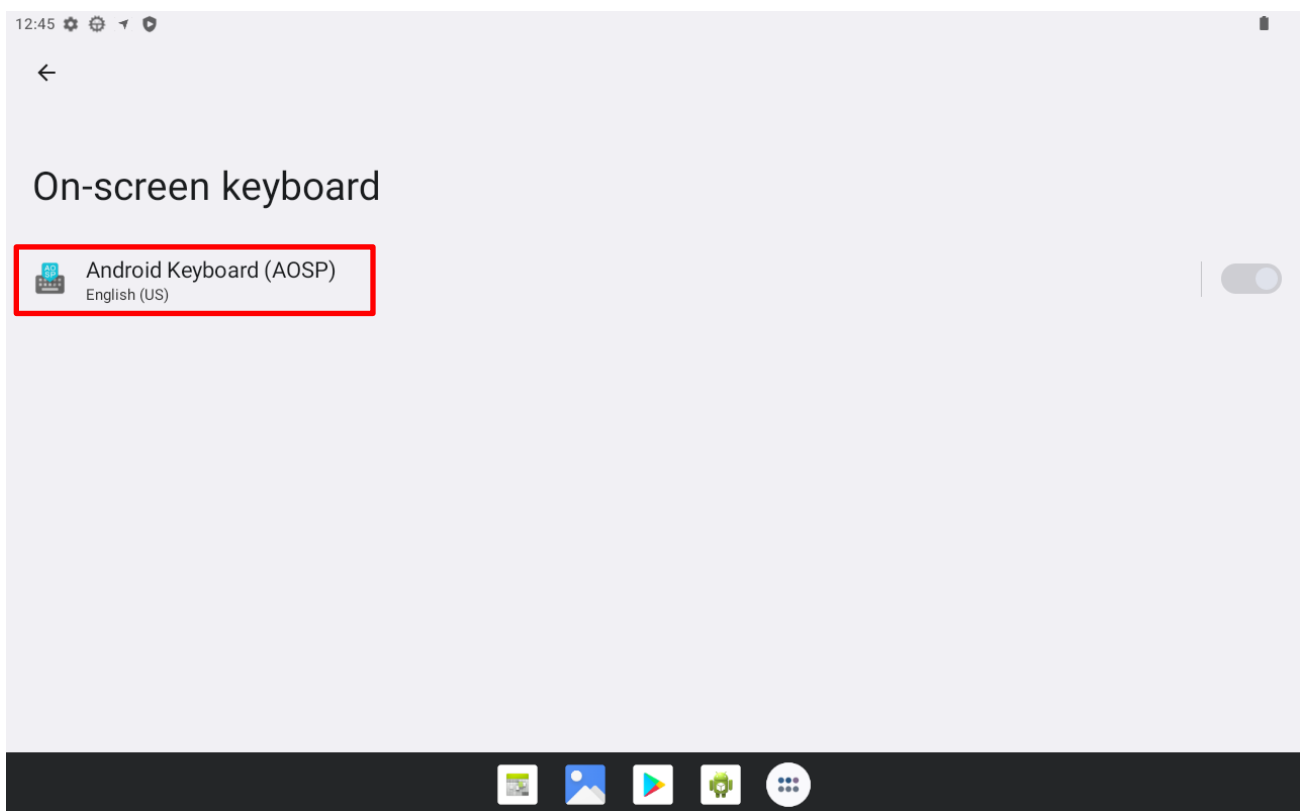
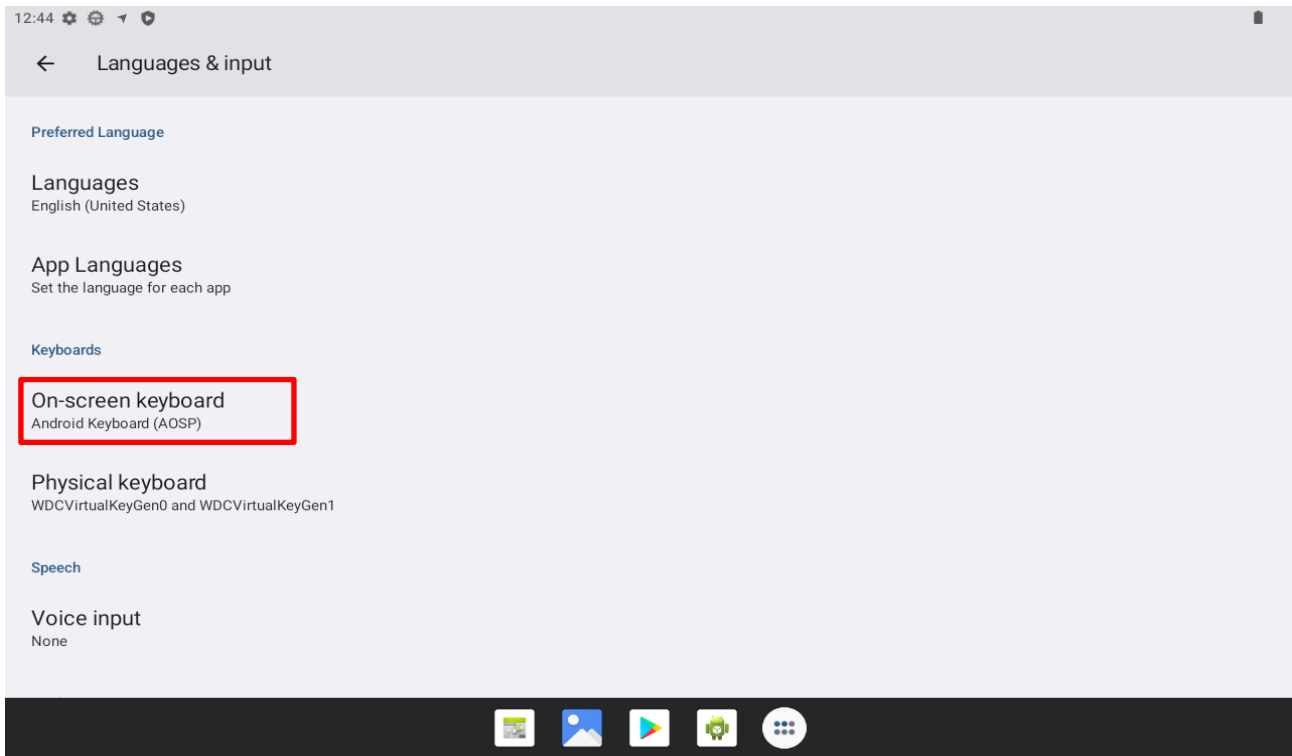


2. In the **Personal** tab, select **Language & Input** .

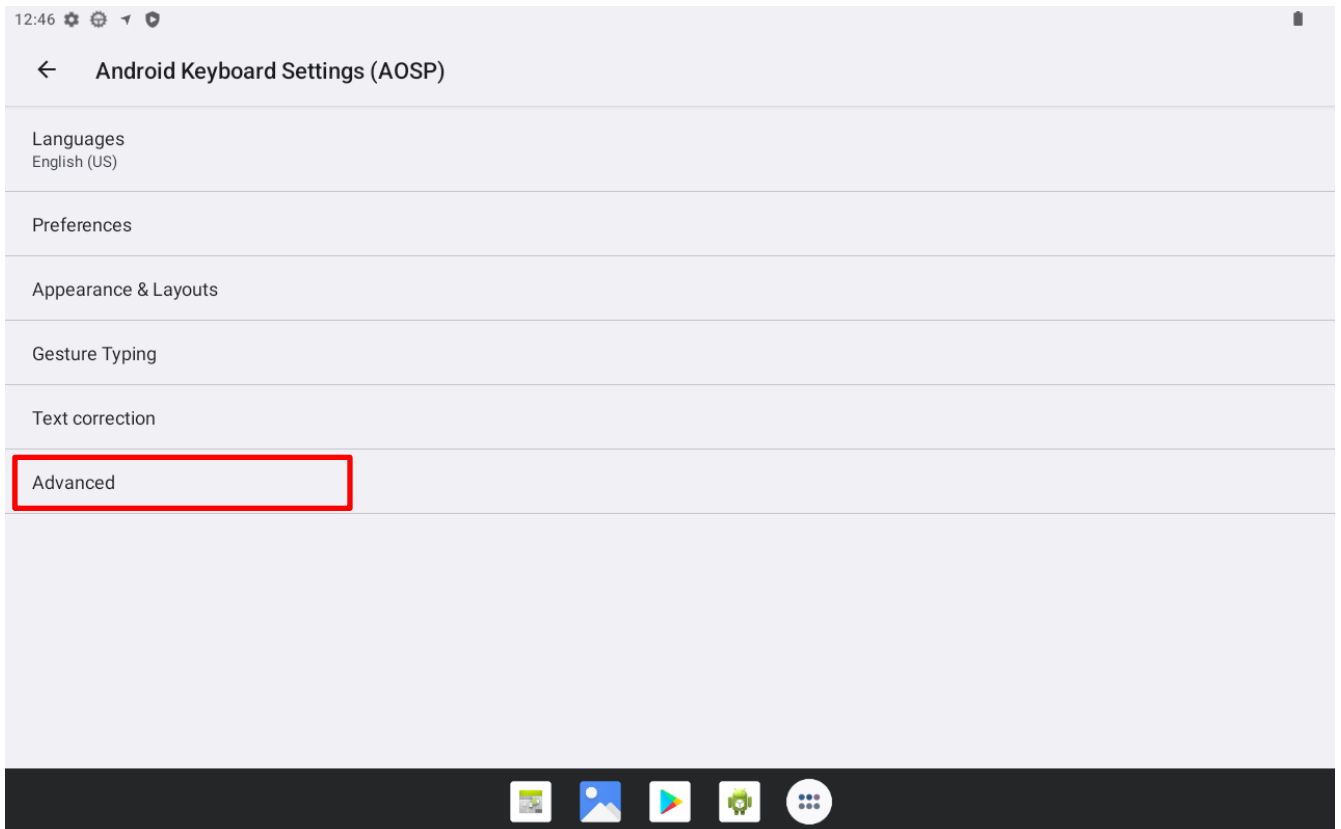


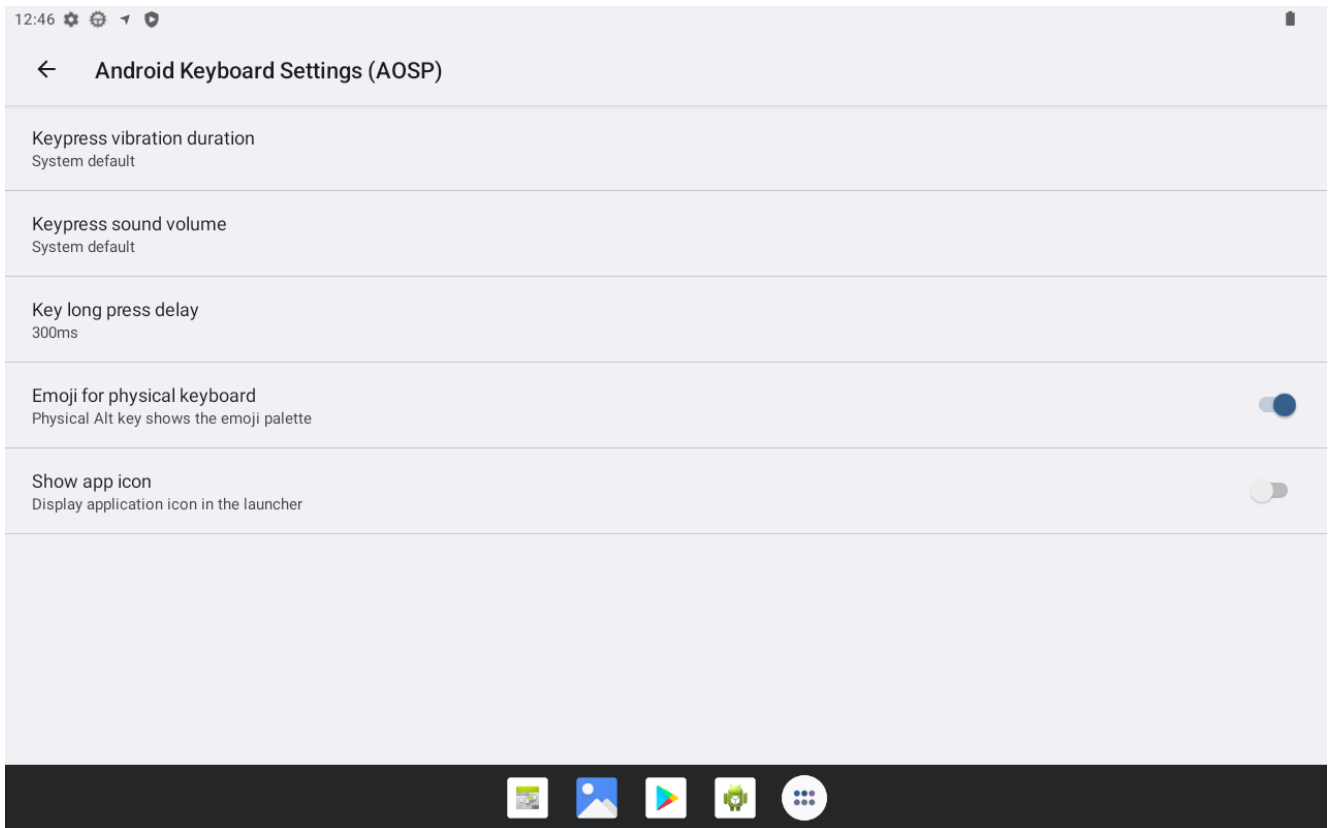
- **Keyboard & Input Methods**

- **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.

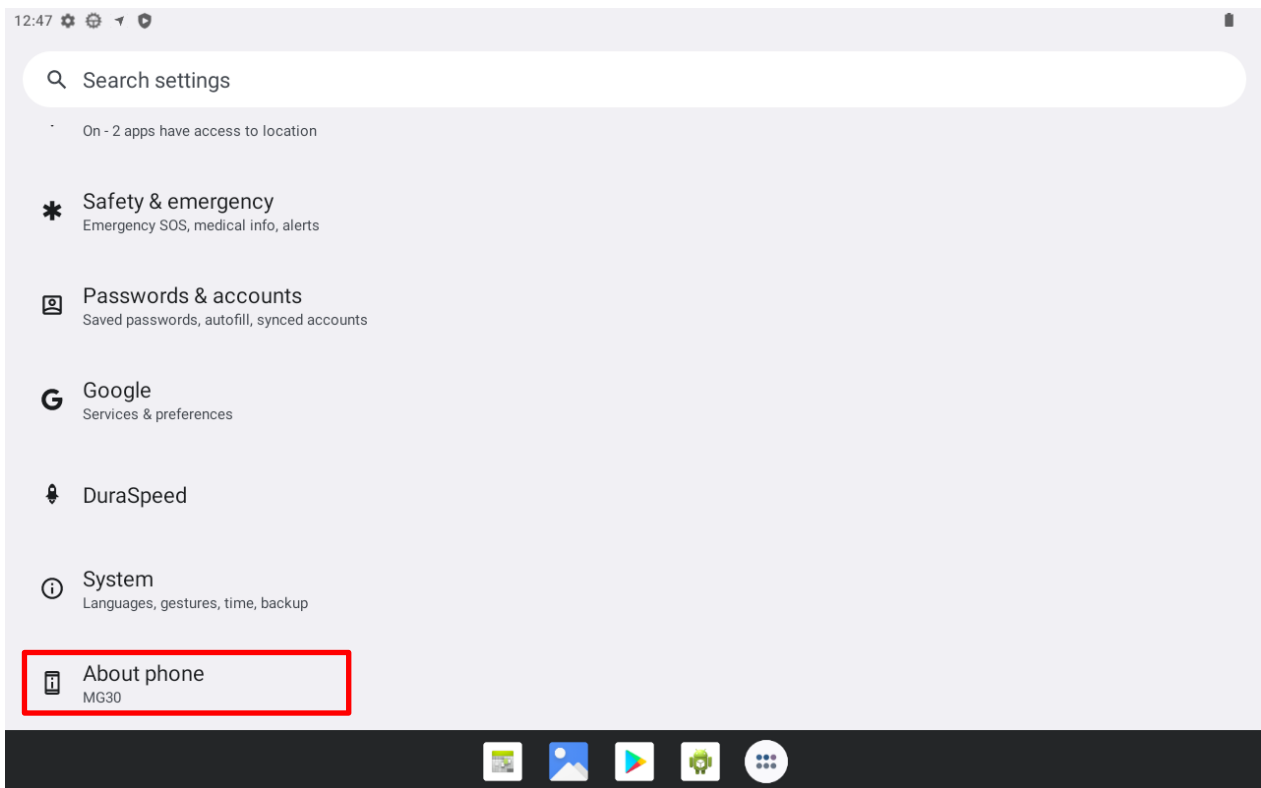
3.8 About phone

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.
- **Device number** – displays the model's name of the current device.
- **Android version** – displays the current Android operating system version the device running

To access the information about the phone:

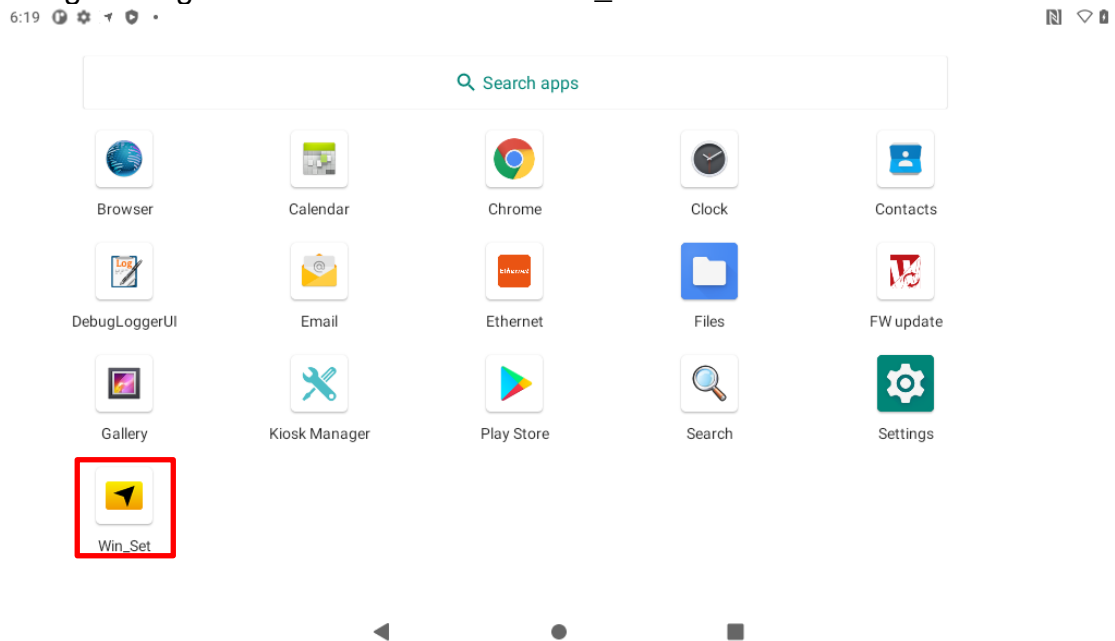
1. Swipe from the bottom of the main desktop, tap **Settings** , then tap **About phone** .



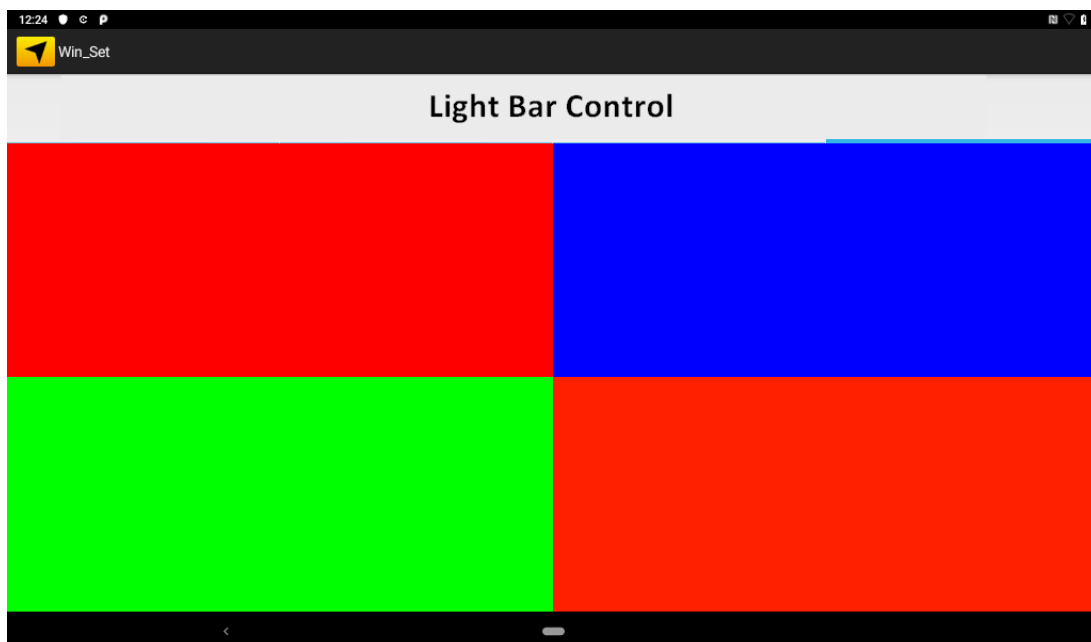
3.9 Testing LED Status Light Bar

Notice that LED Status Light Bar is a default feature for S-Series HMI (vary by model no.).

To test LED Light Bar go to **APPS** then choose **Win_Set**.




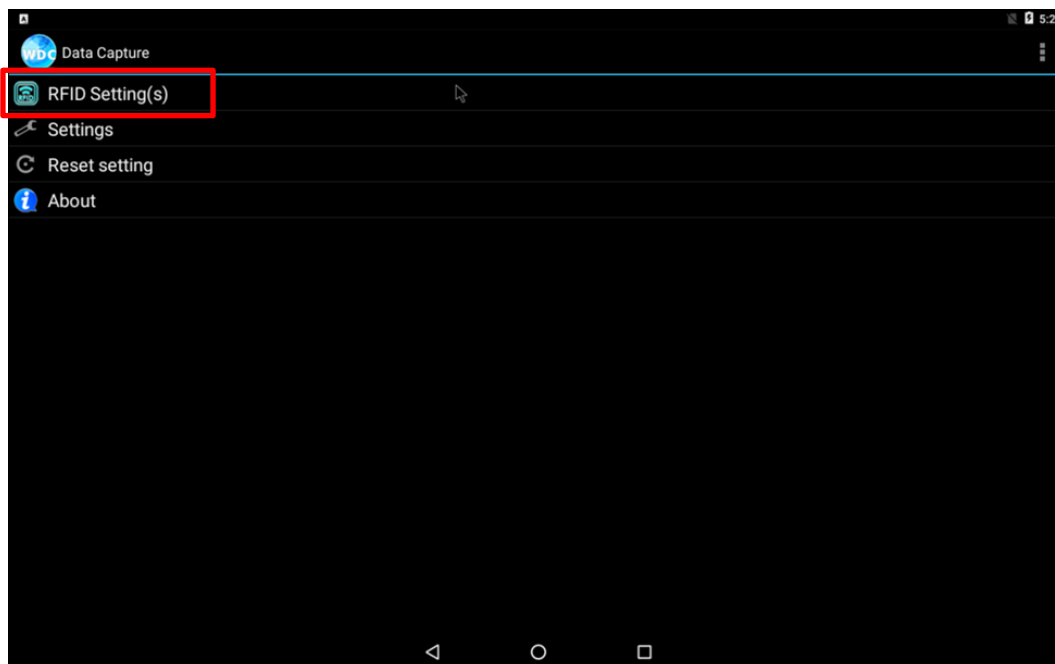
Adjust the intensity of red, green, and blue light.



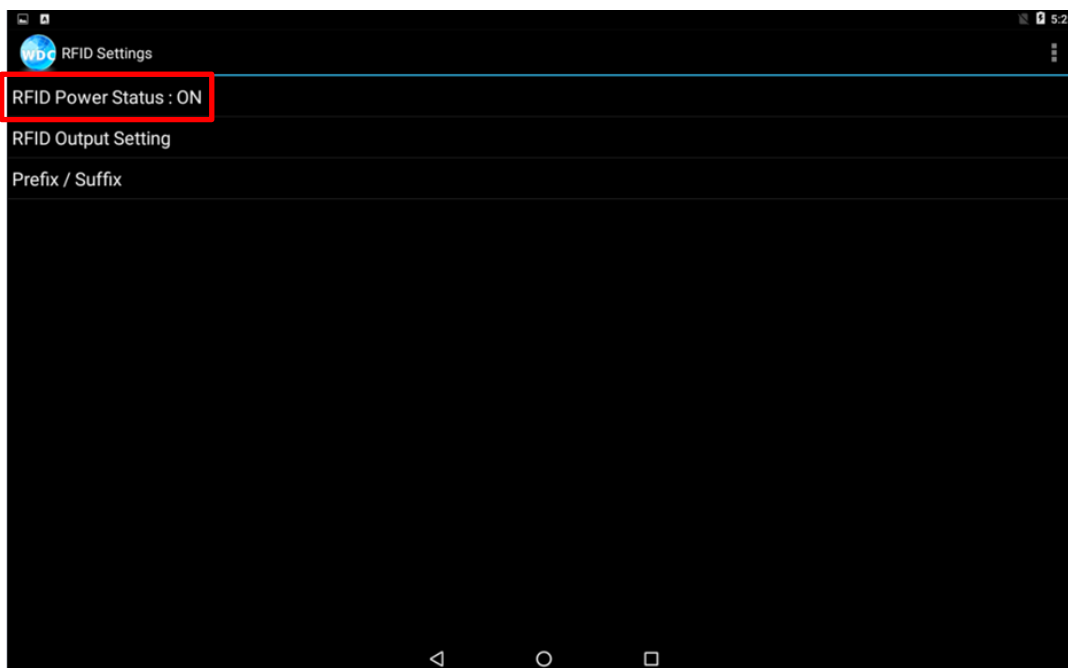
3.10 Reading RFID Tag (Optional)

Notice that HF RFID Reader is an optional feature for S-Series HMI and may not be present in your device. Follow instructions below to test HF RFID Reader feature:

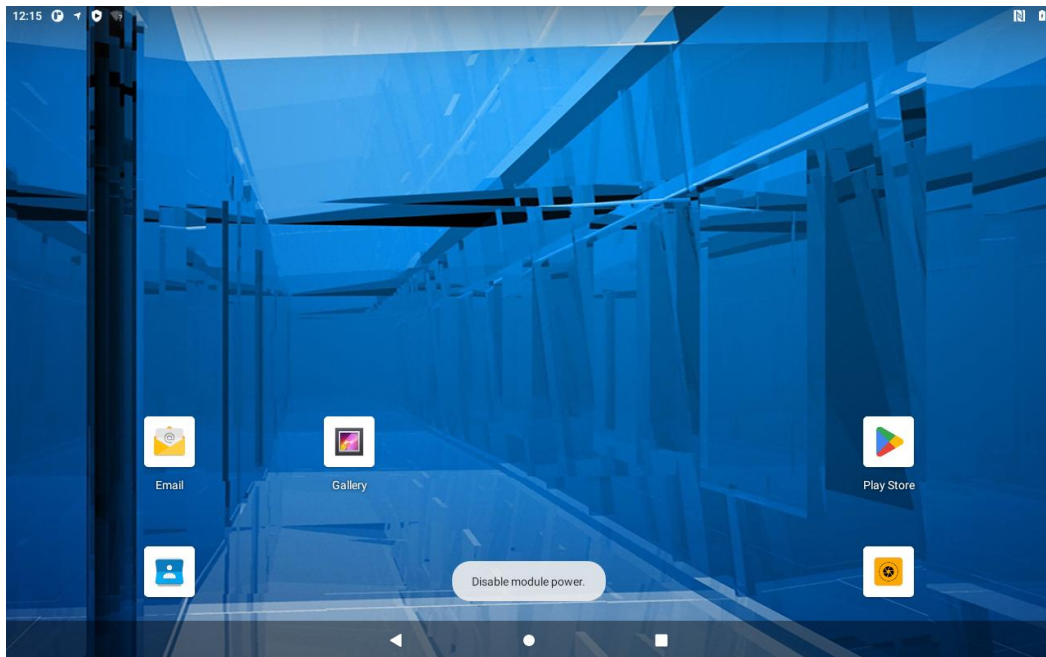
1. Open **Data Capture**  application. When you enter the application, the device will automatically turn on the RFID Reader).
2. Tap **RFID Setting(s)**.



3. Tap **RFID Power Status: ON**.




4. It will turn off the module power and show **“Disable module power”** on the screen.

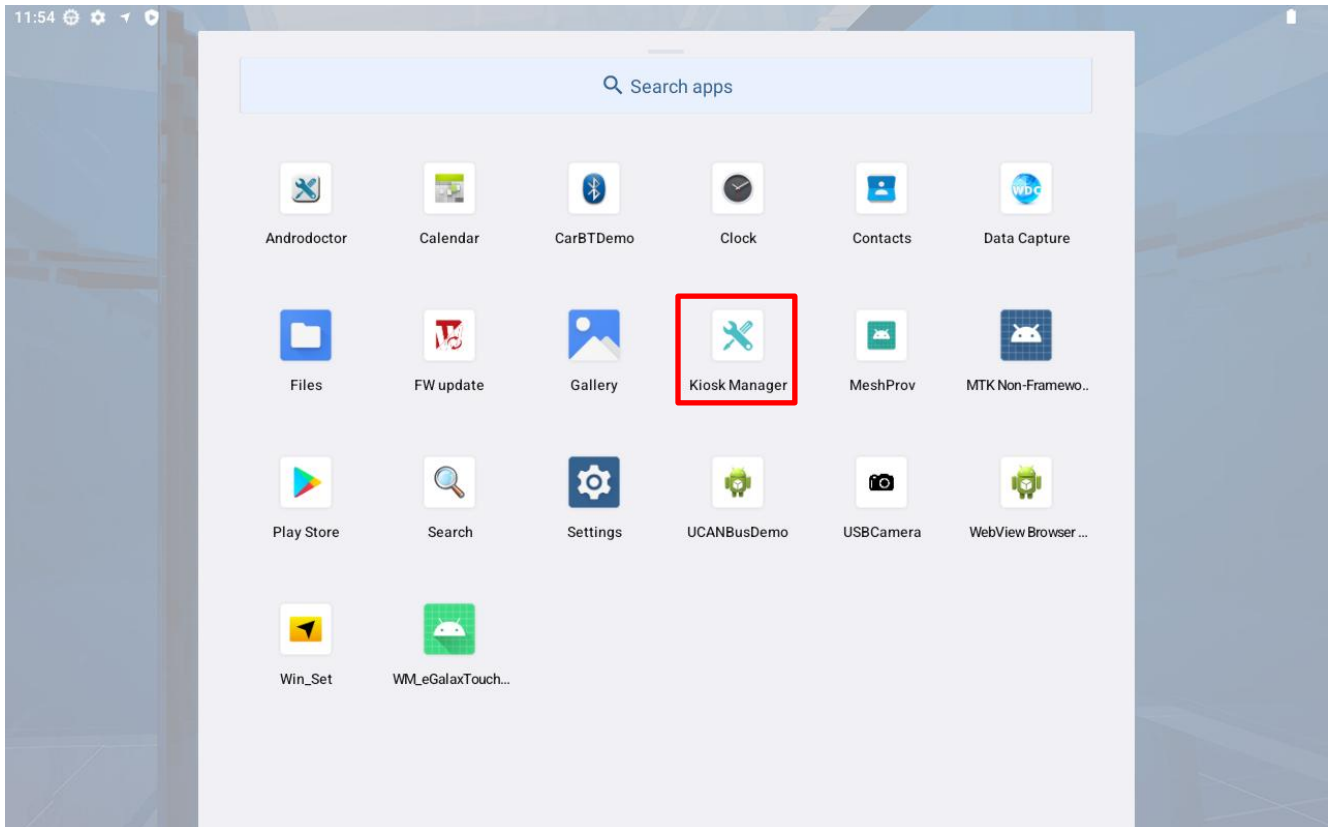


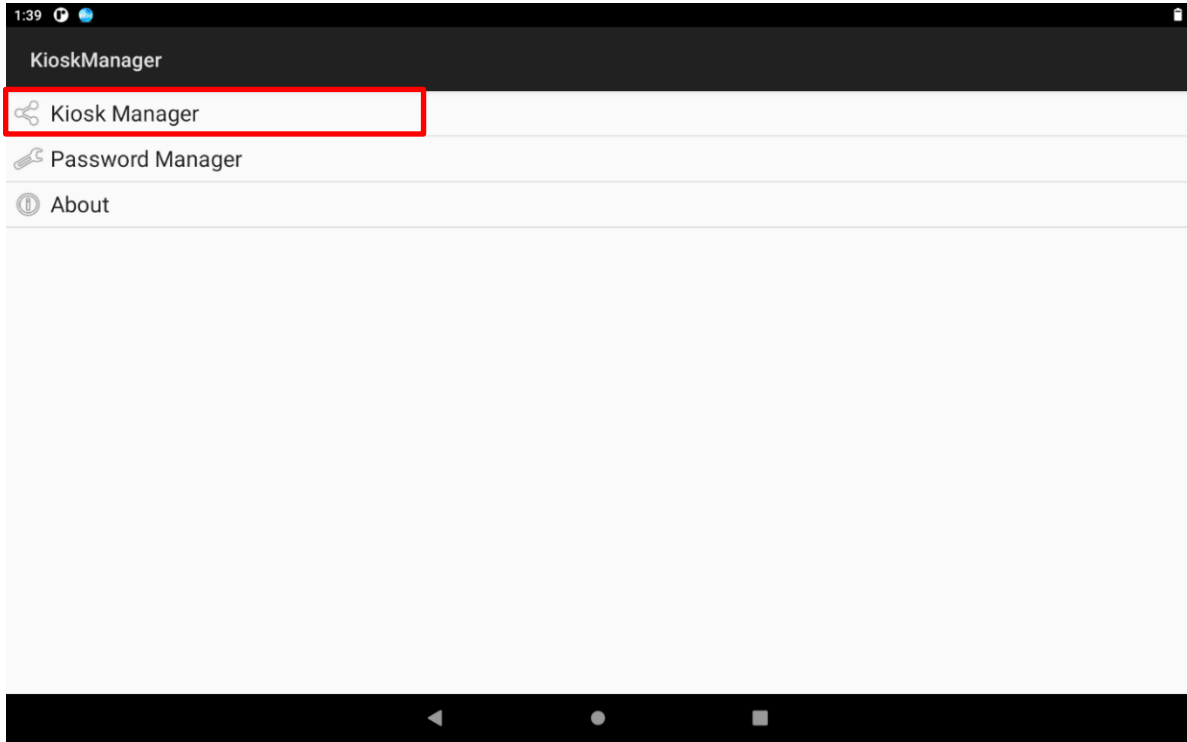
Chapter 4: Winmate Kiosk Manager

The S-Series HMI comes with preinstalled APP named Winmate® Kiosk Manager (WKM). 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.

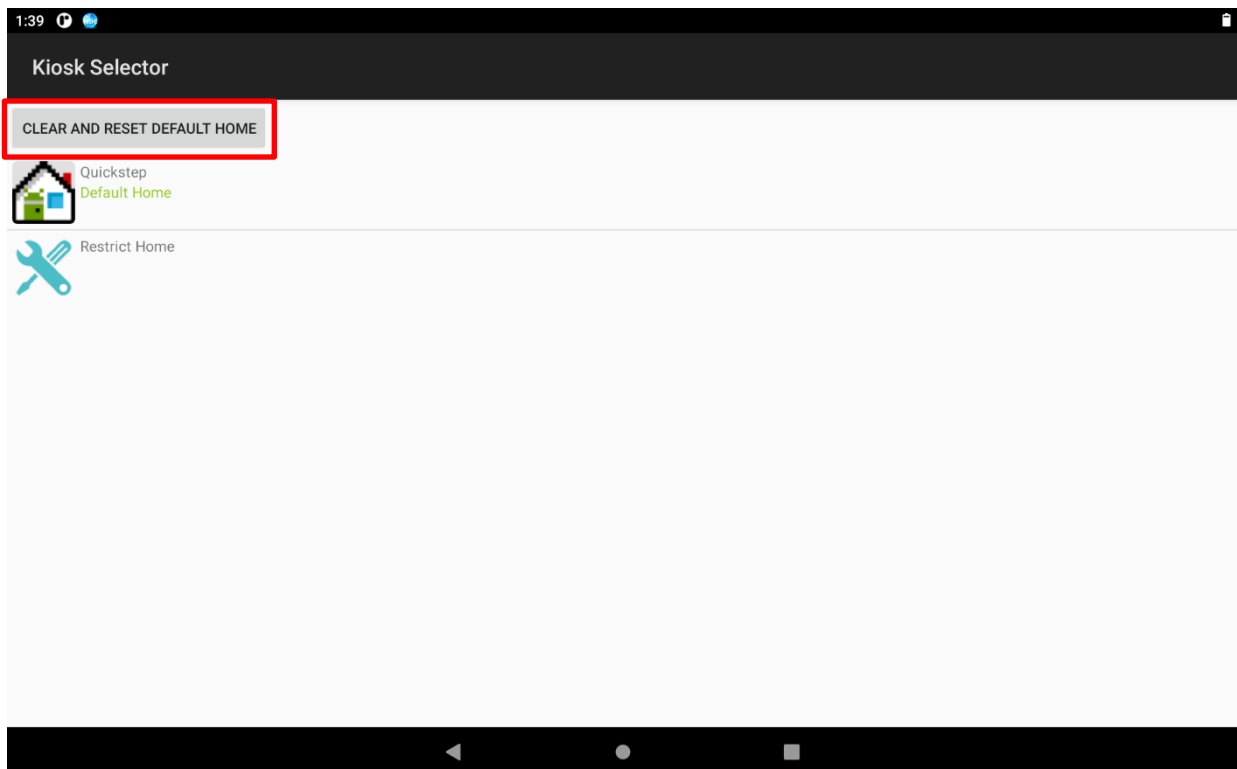
4.1 Lock Applications Launcher

1. In the main APPS window, select the **Kiosk Manager** . Select **Kiosk Manager** to start your settings. Go to **Password Manager** and set your own password for this APP. The default password is “password”.

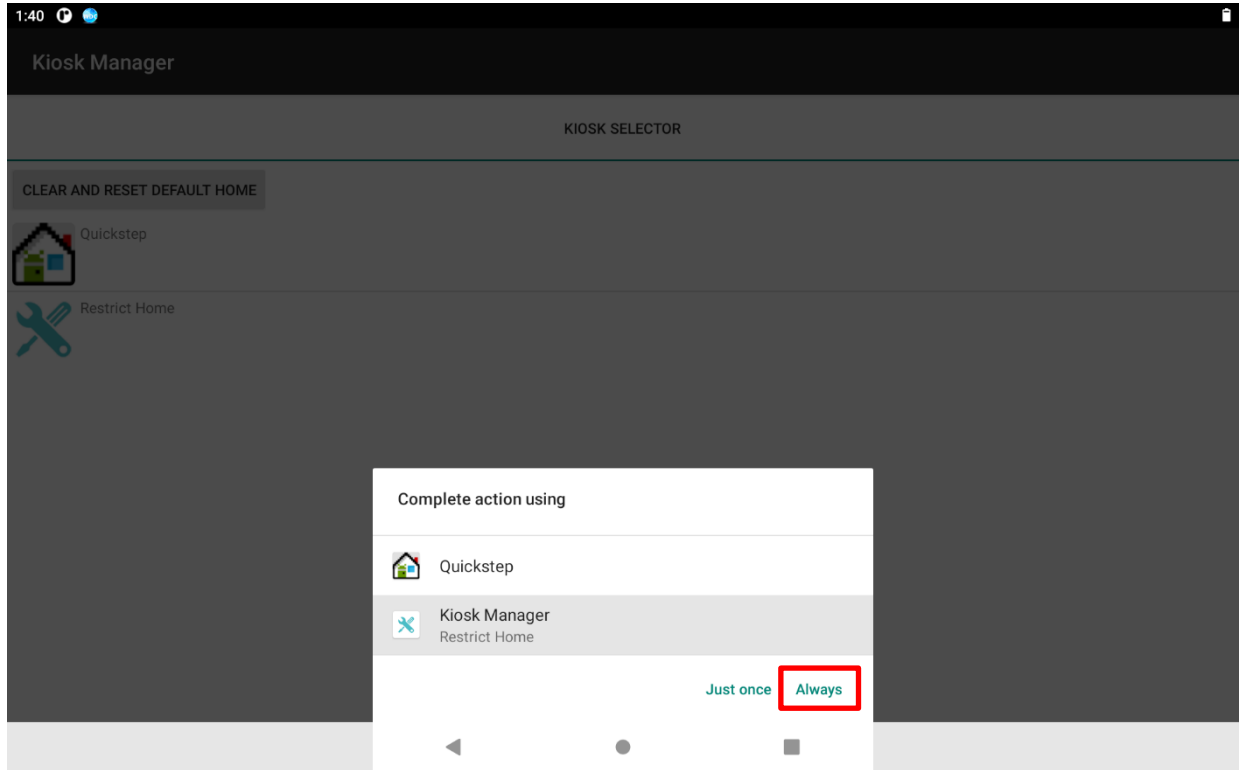




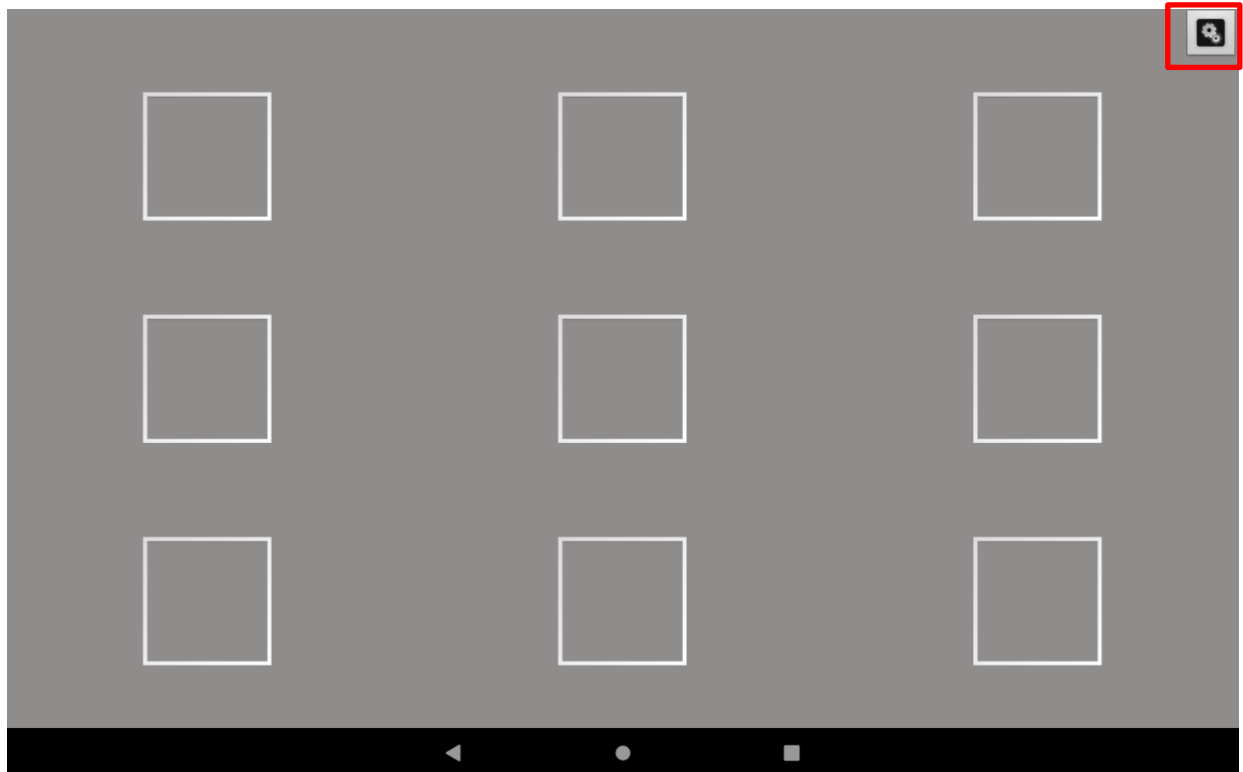
2. Press **Clear and Reset Default Home**.



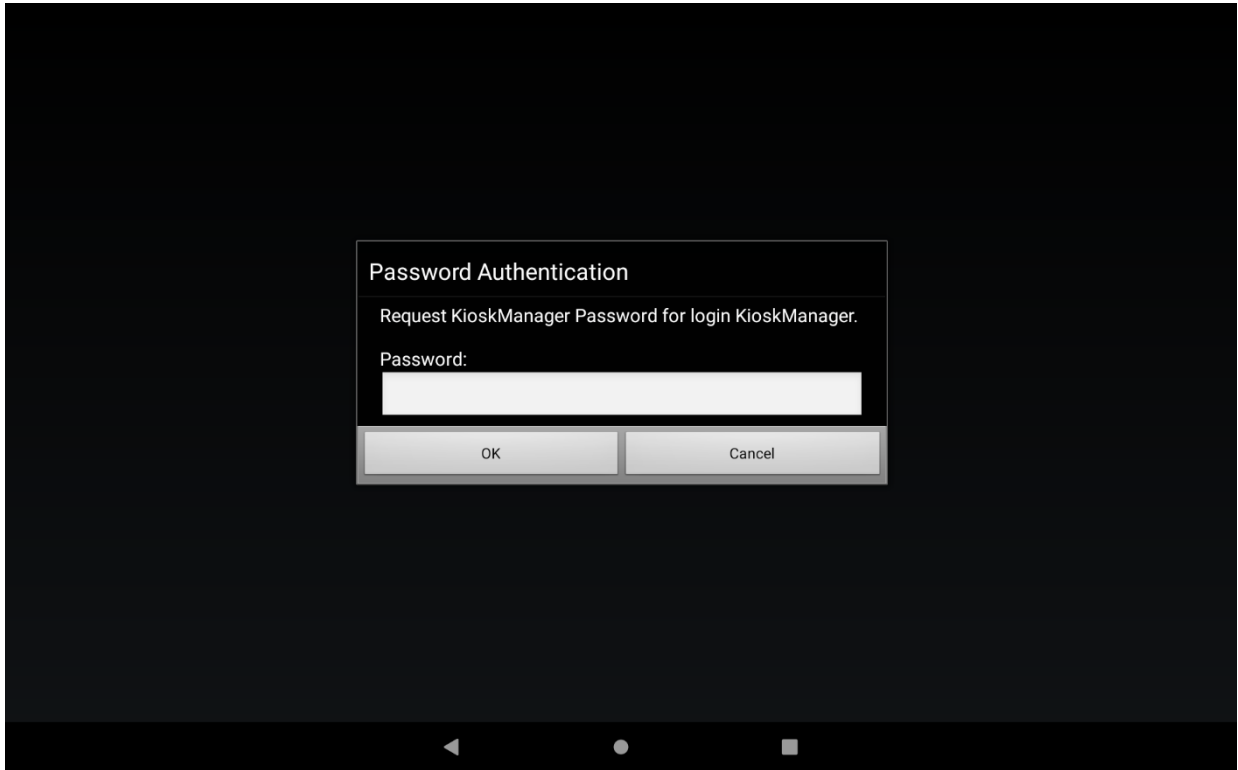
3. Select **Restrict Home** then **Always**. The system will automatically be locked on selected Apps.



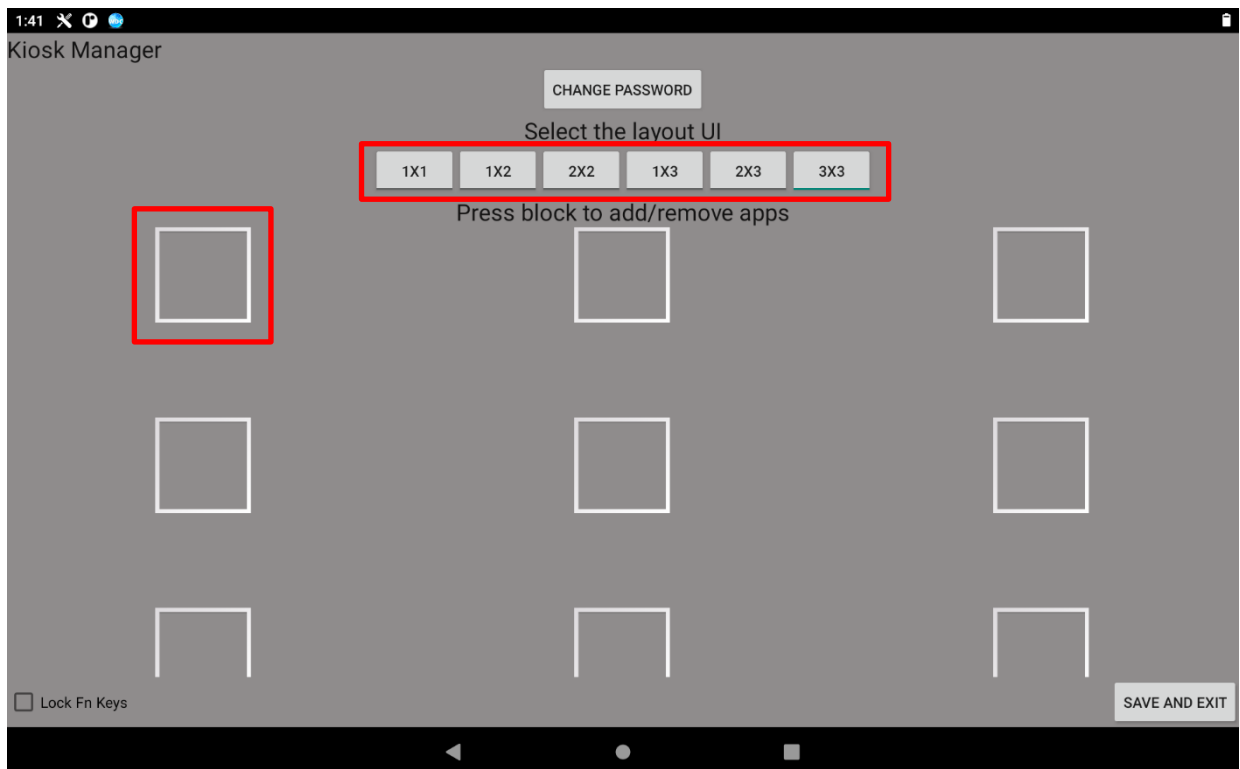
4. Click the gear icon on the upper right corner. Then choose **Change UI**.



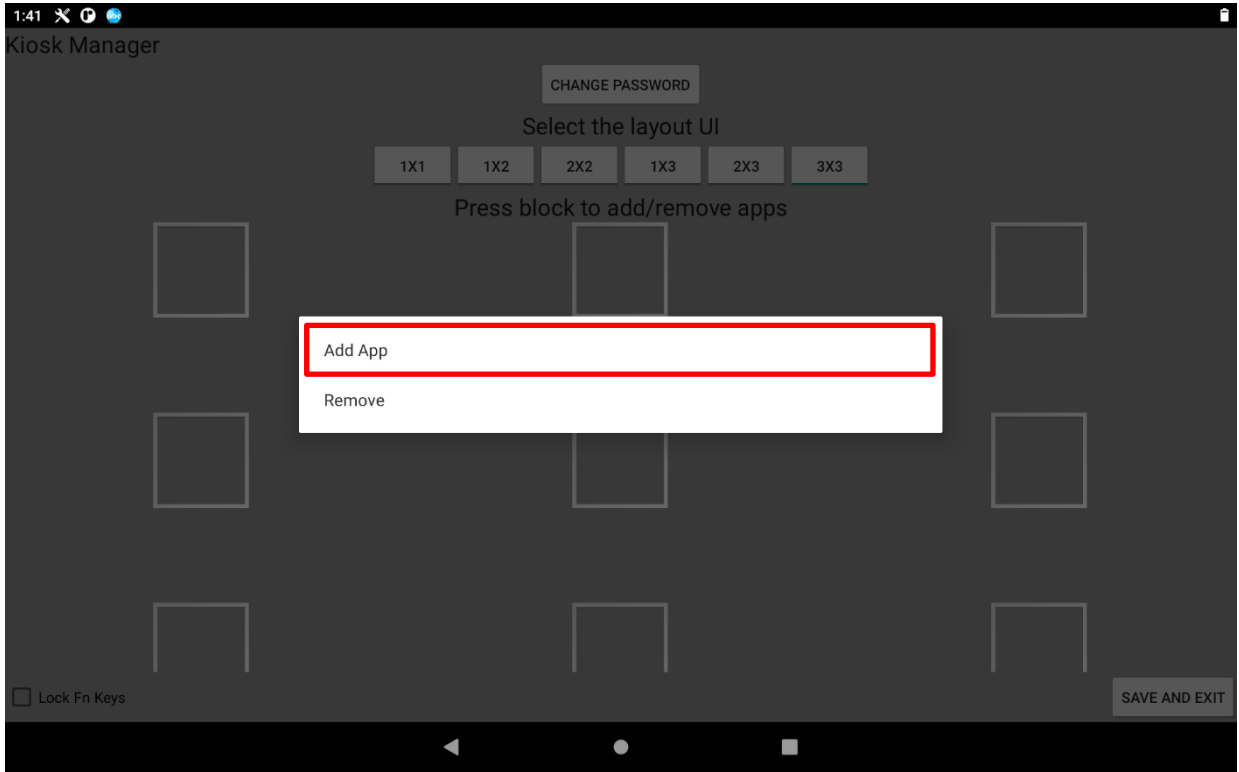
5. Input the default password: **password**



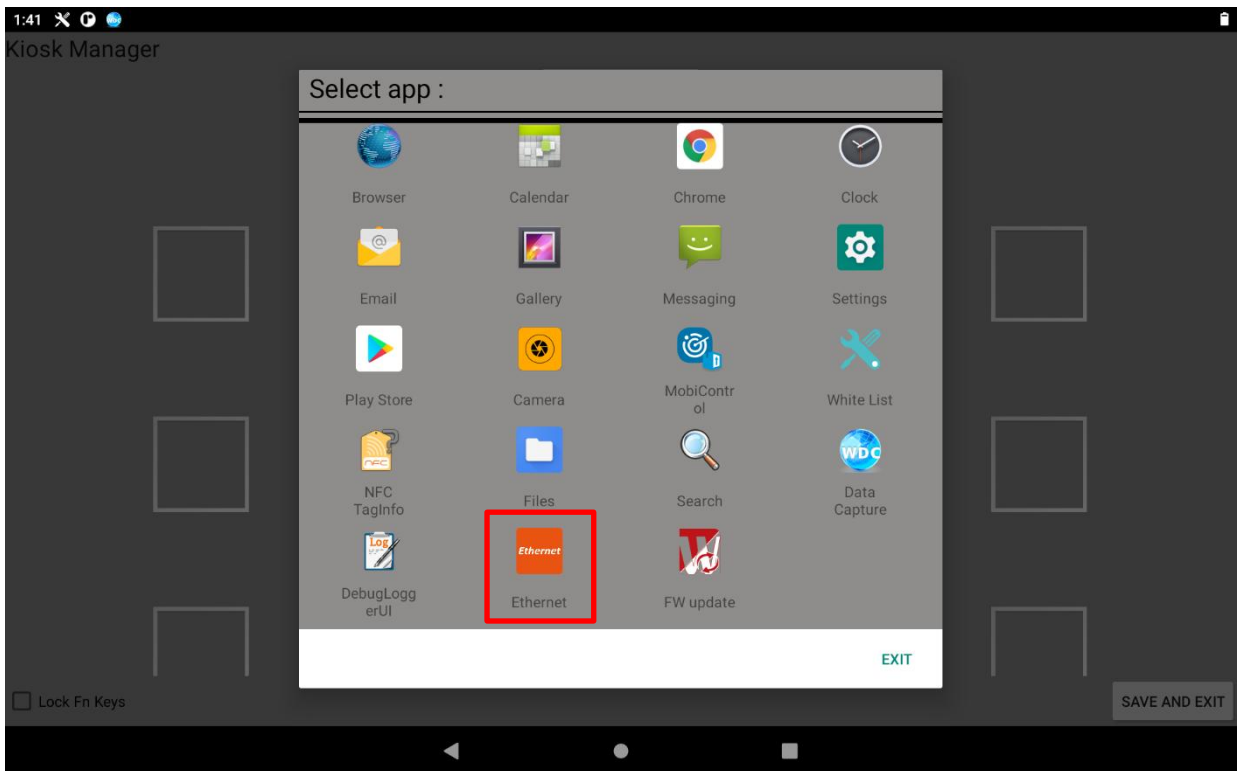
6. Choose the layout UI, then press the empty slot to add/remove apps.

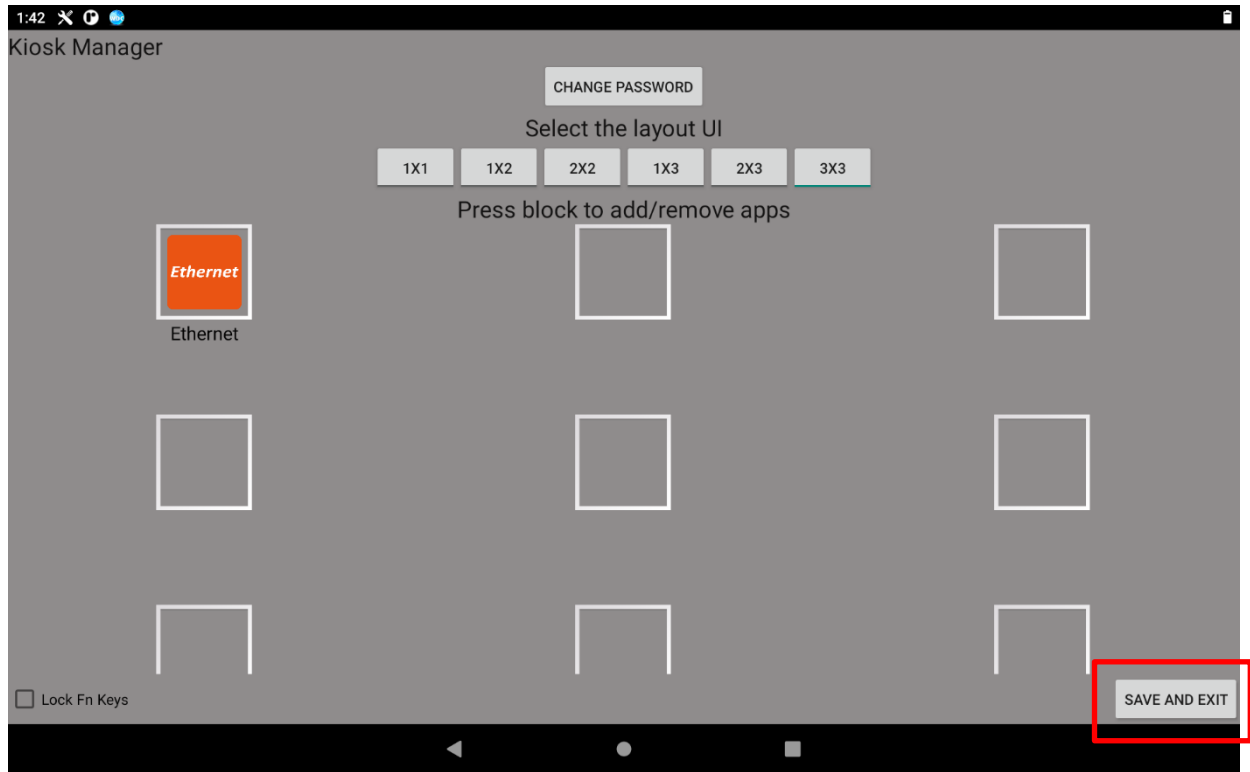


7. Click **Add App**.



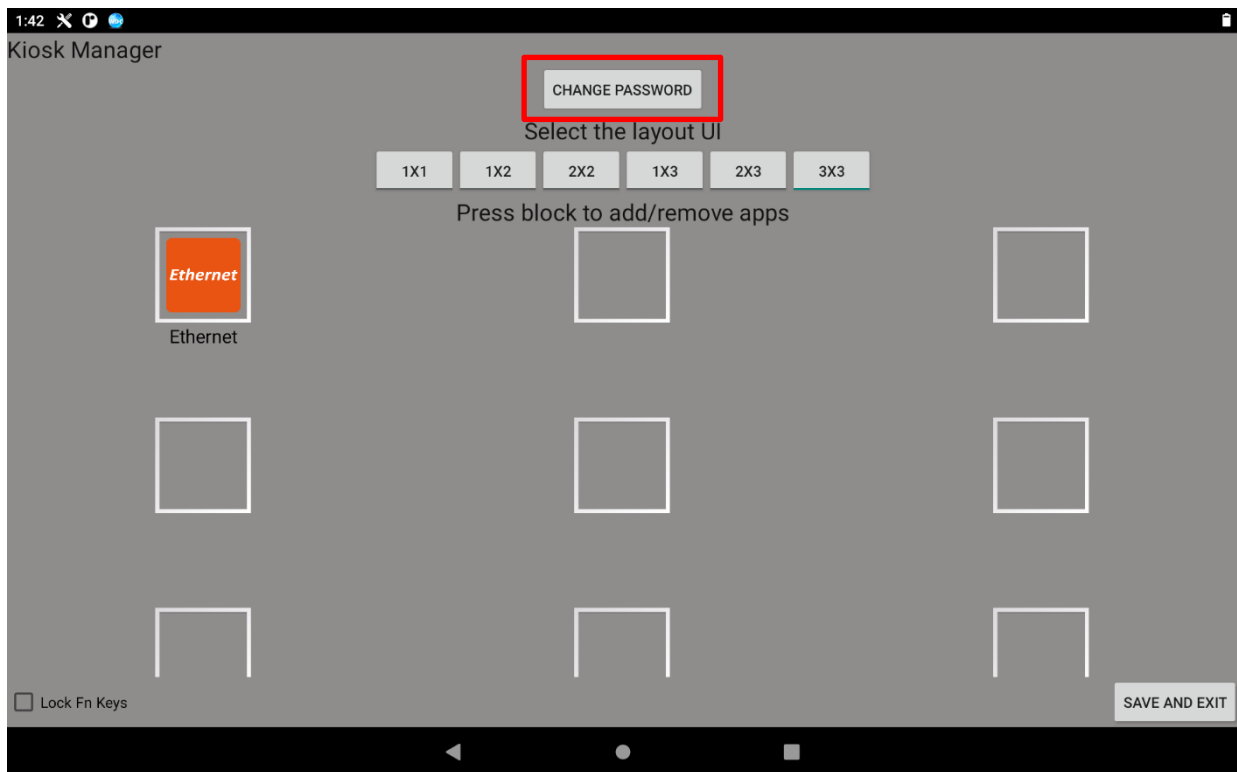
8. Select applications you want to lock. For example, **Ethernet**.



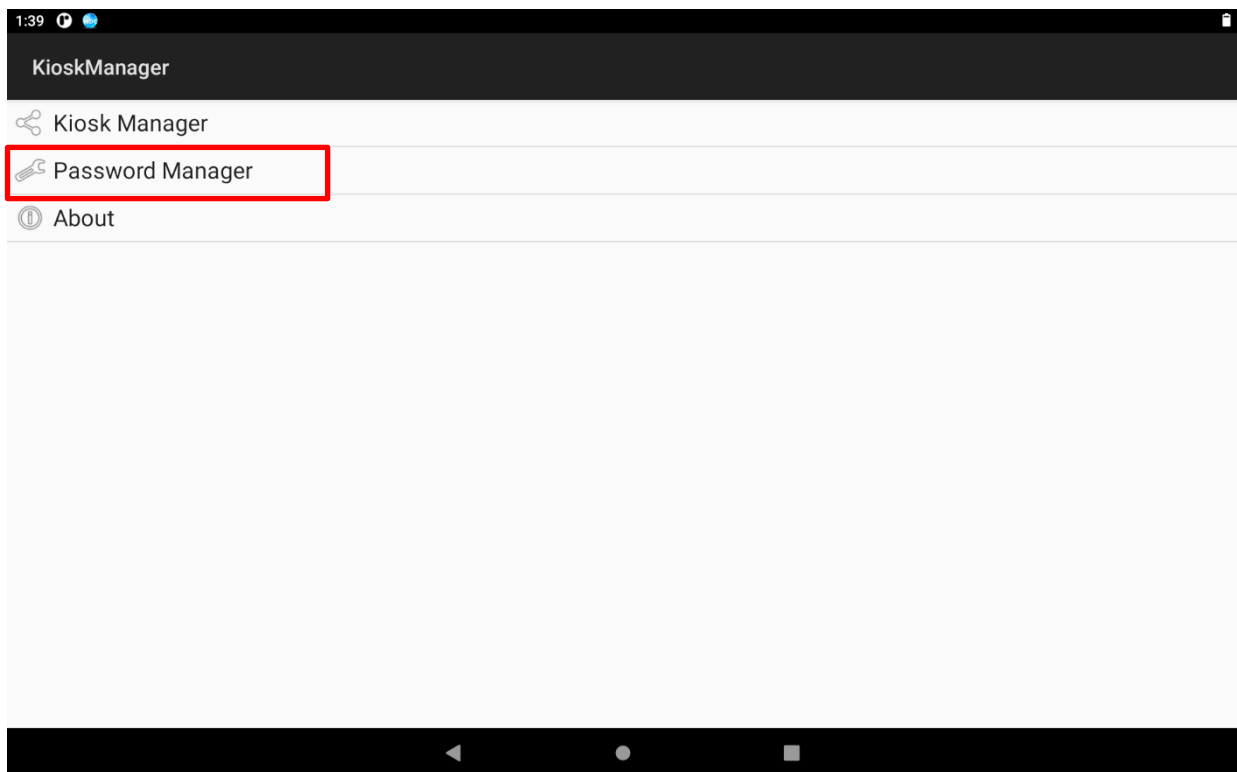
9. Click **SAVE AND EXIT**.

4.2 Change Password

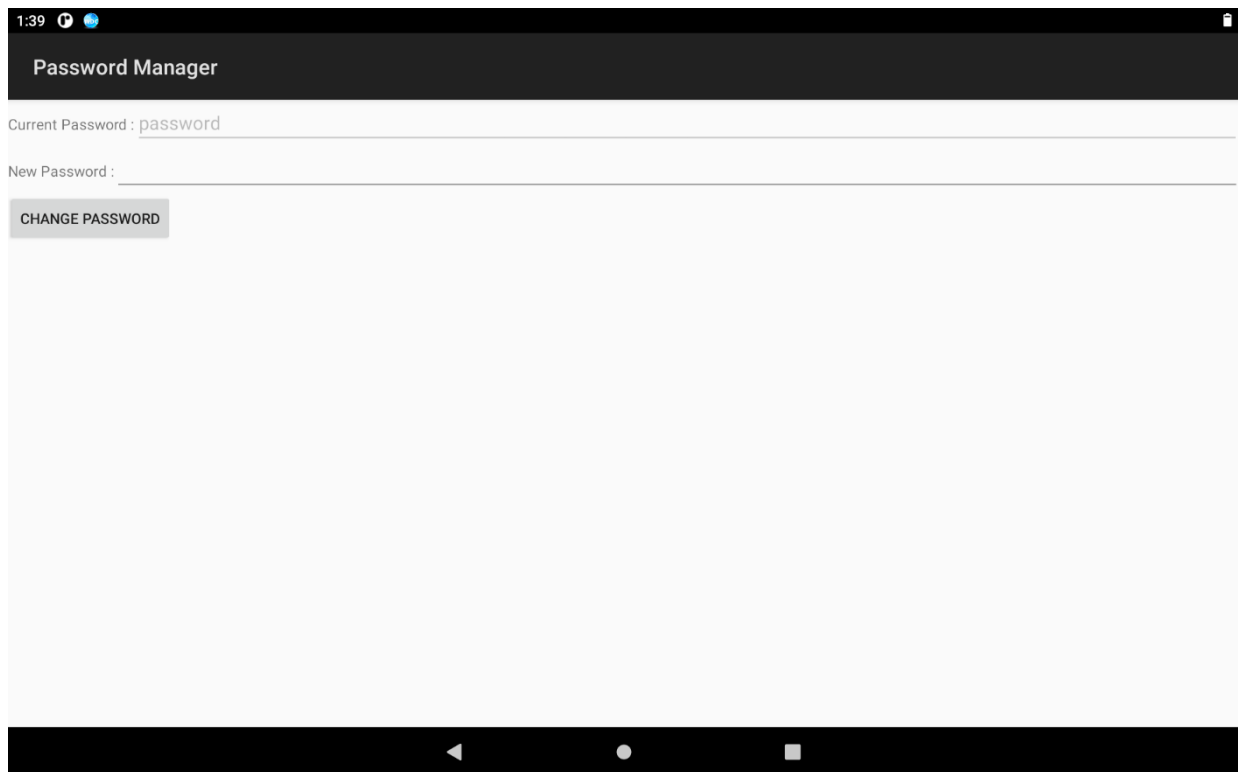
1. In the UI edit page, select the **CHANGE PASSWORD**.



Or, in the main Apps window, select the **Kiosk Manager** . Select **Password Manager** to start your settings.

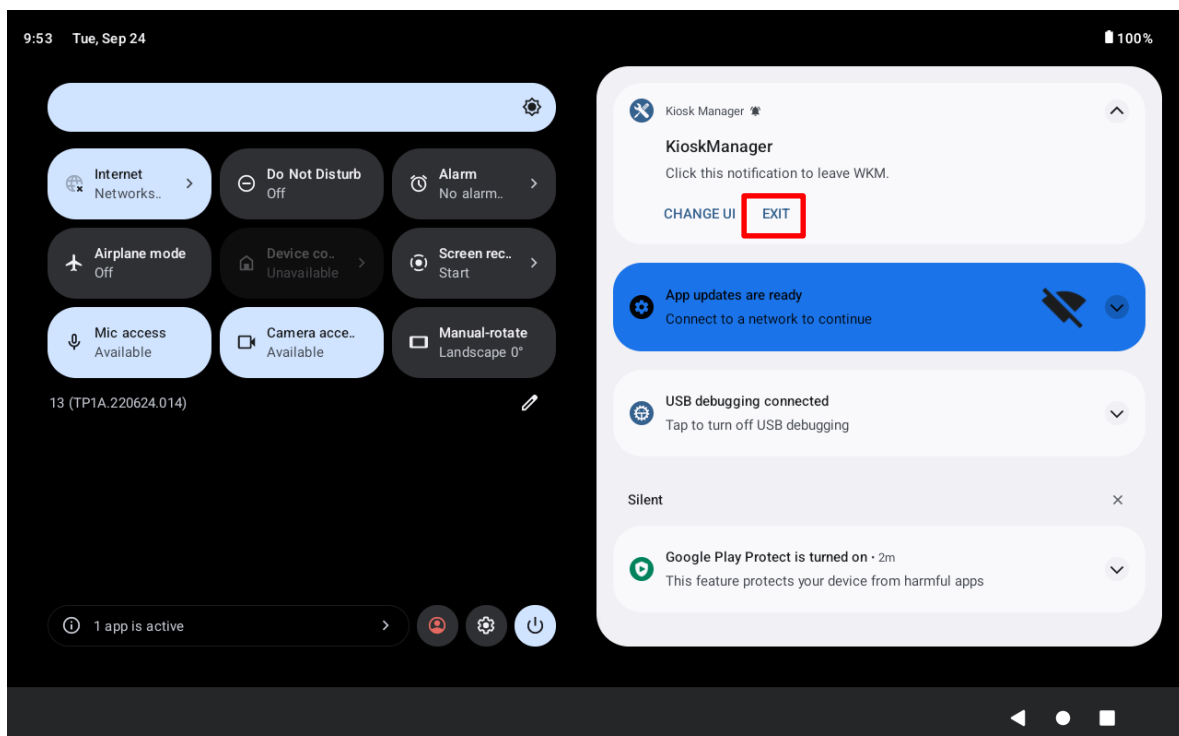


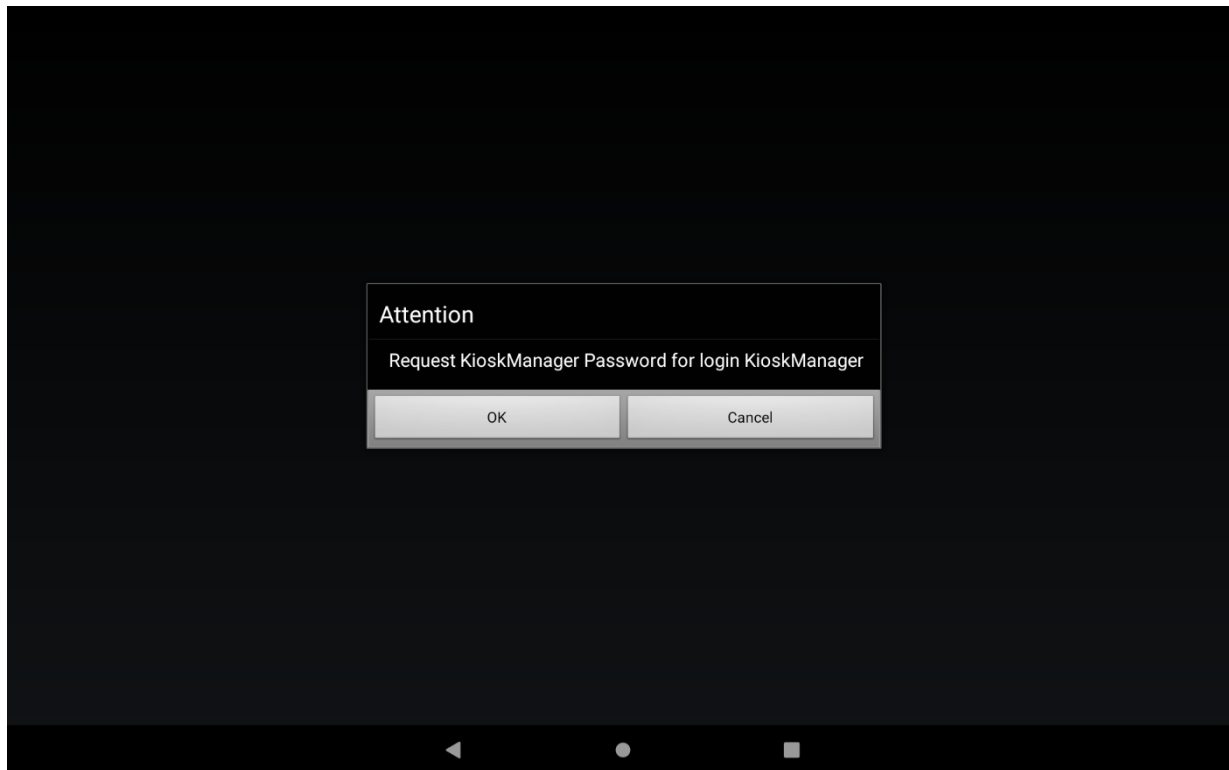
- The default password is “**password**”. Enter a new password in **New Password** field, and then tap **Change Password**.



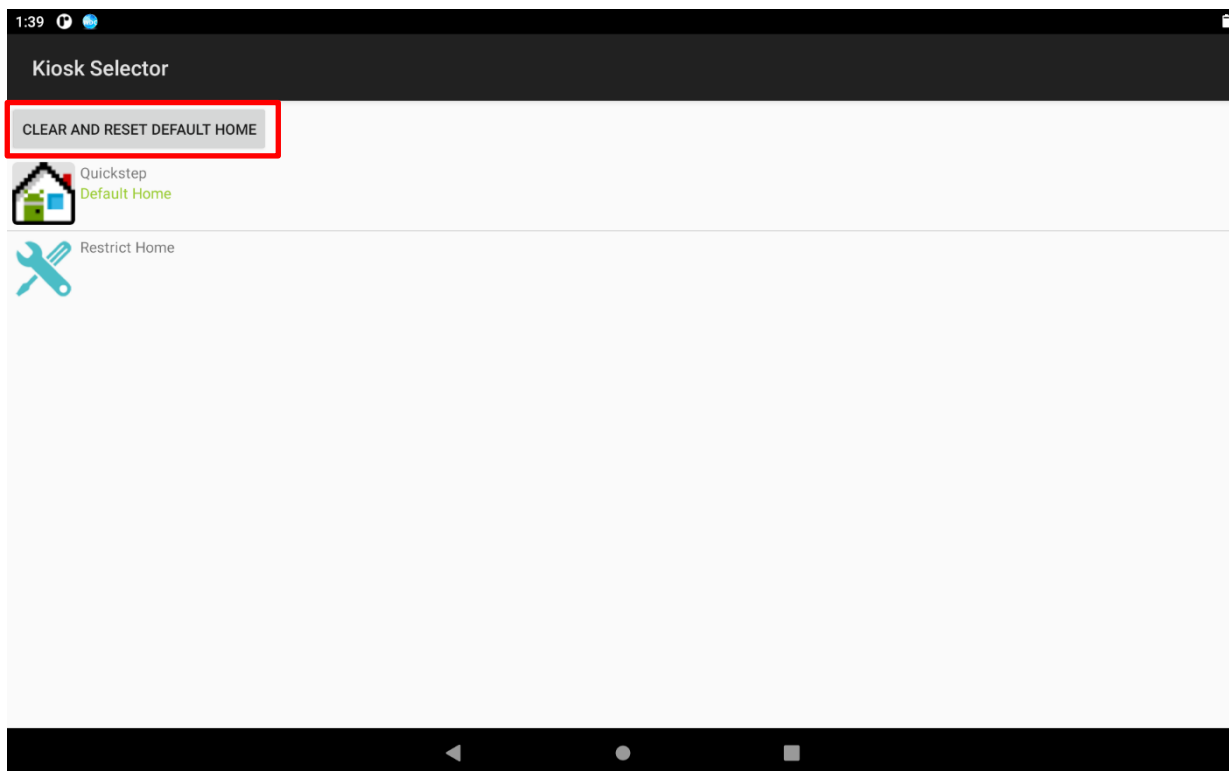
4.3 Unlock Applications Launcher

- Slide down the top bar and press **Kiosk Manager** icon, click **Exit** and please enter the password to login (the default password is **password**). Press **Ok**.

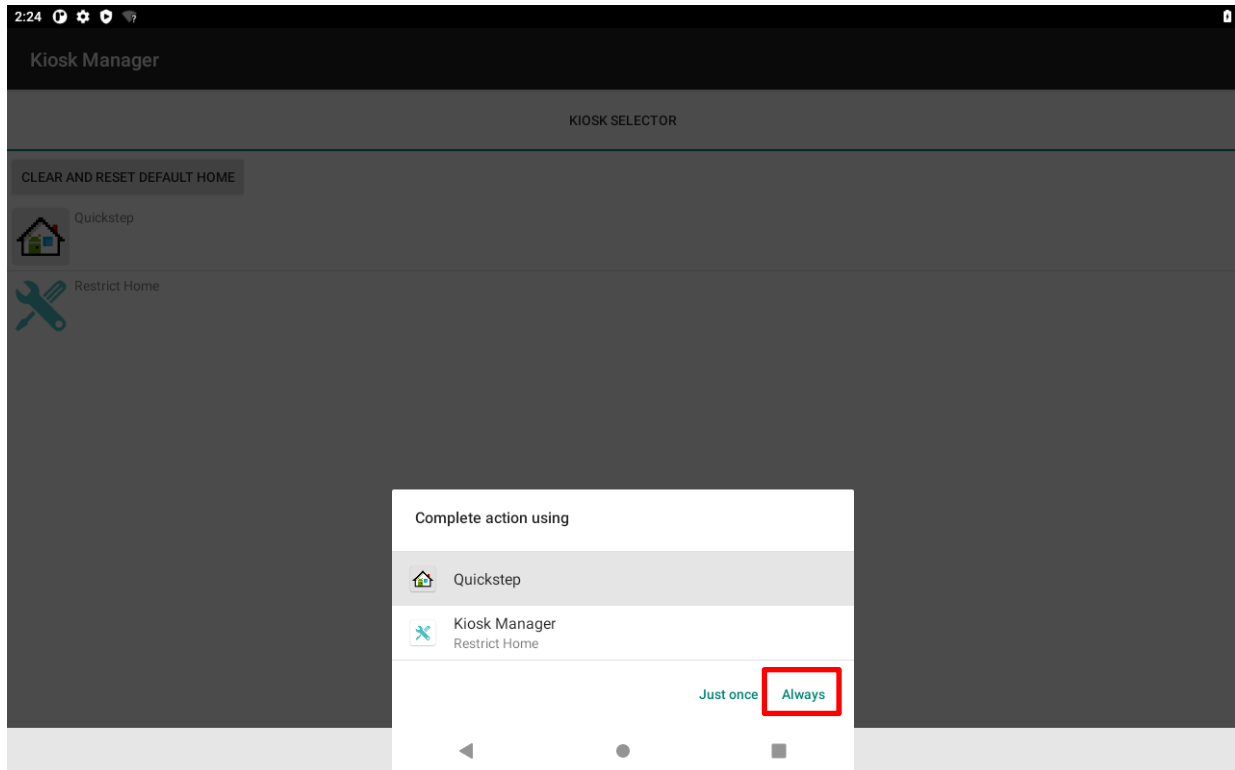




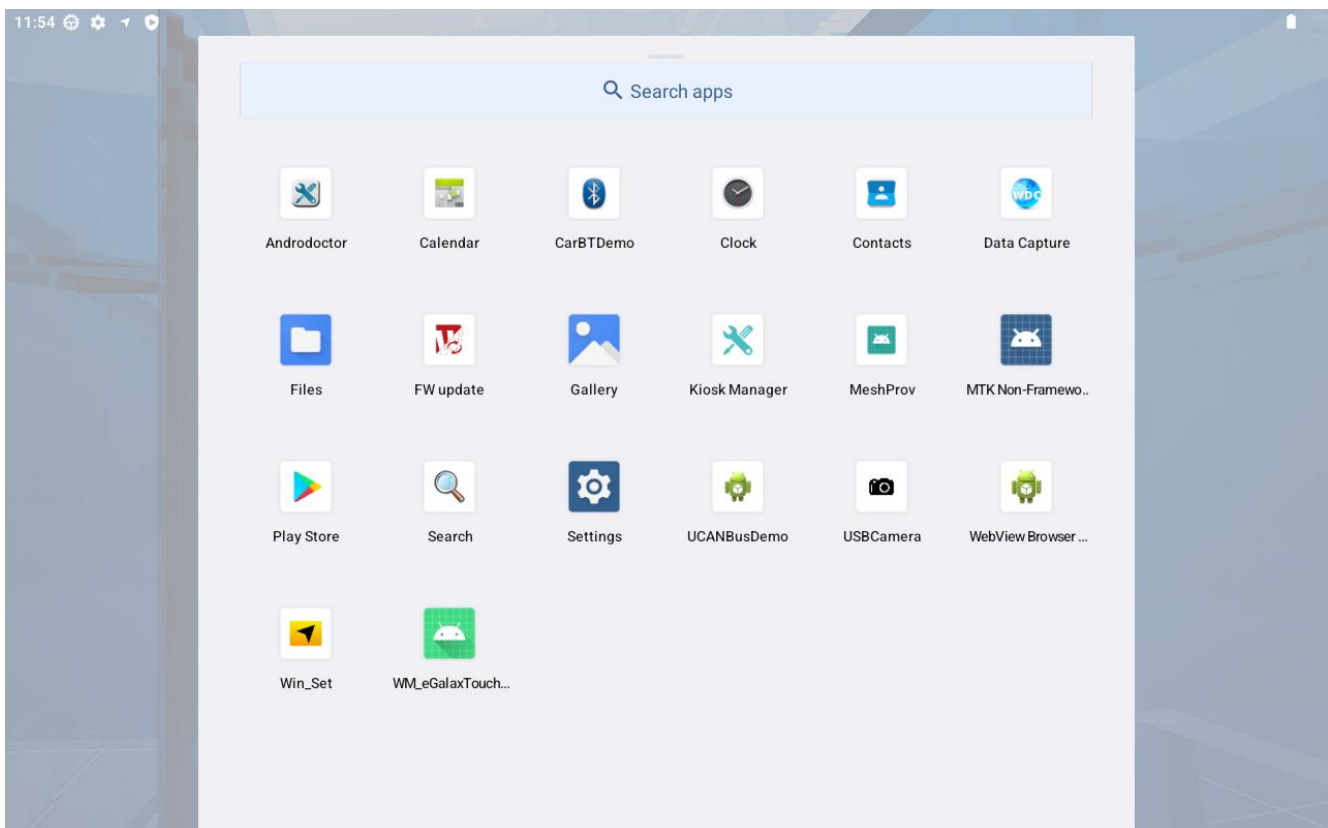
2. Click **Clear and Reset Default Home**.



3. Select **Quickstep**, and press **ALWAYS**.



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





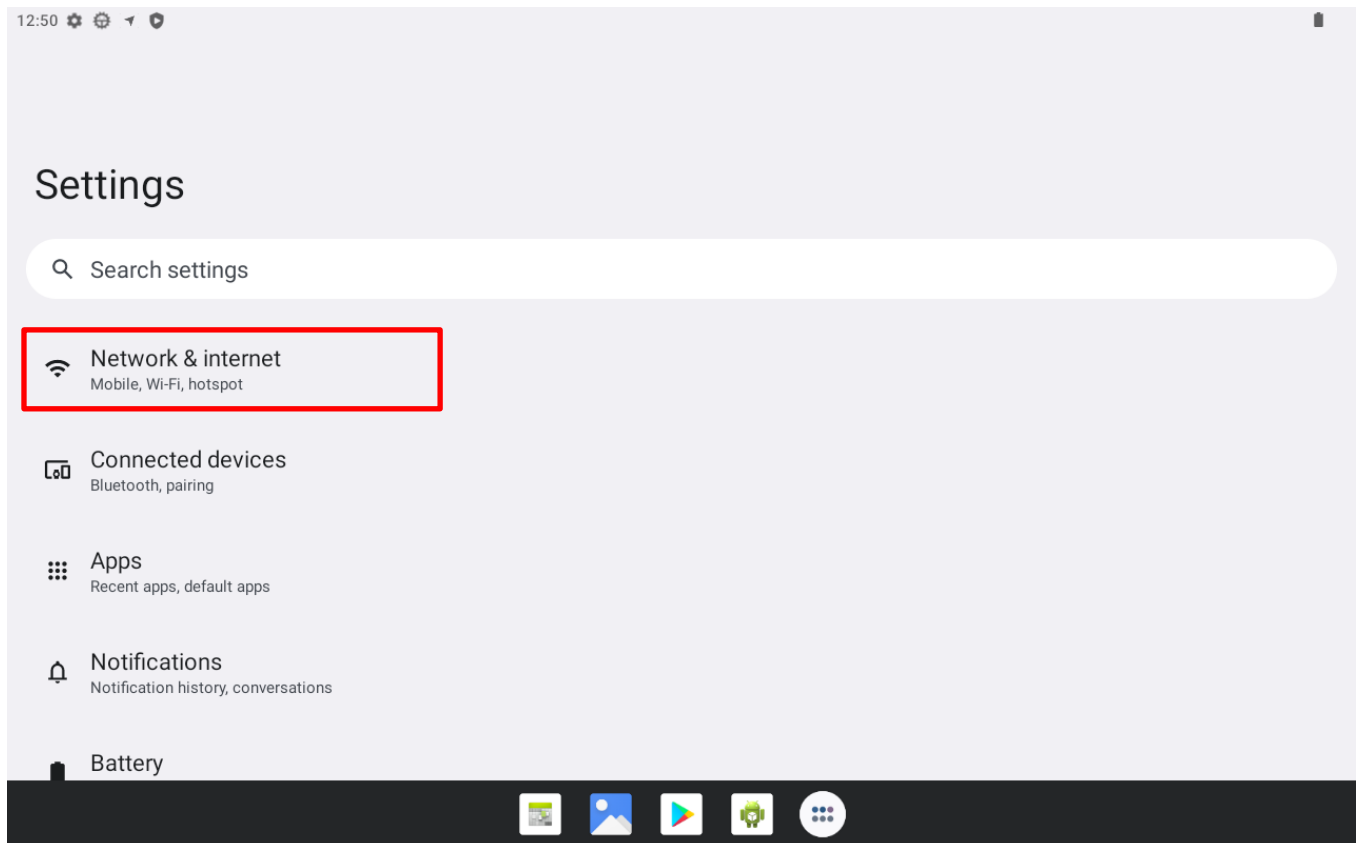
Chapter 5: Networks and Wireless Devices

This chapter explains how to connect the S-Series HMI to network and peripheral devices.

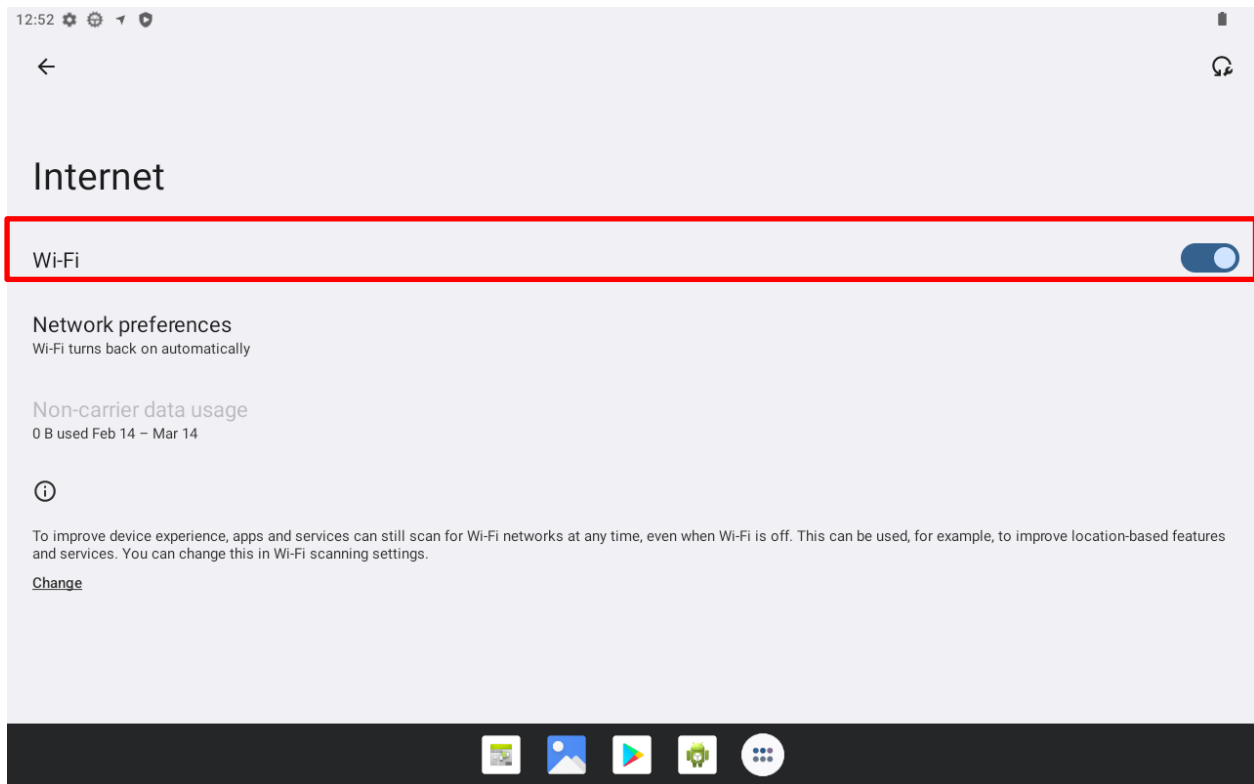
5.1 Connecting to Wi-Fi Networks (Optional)

5.1.1 Turning on Wi-Fi and Connecting to Wi-Fi Networks

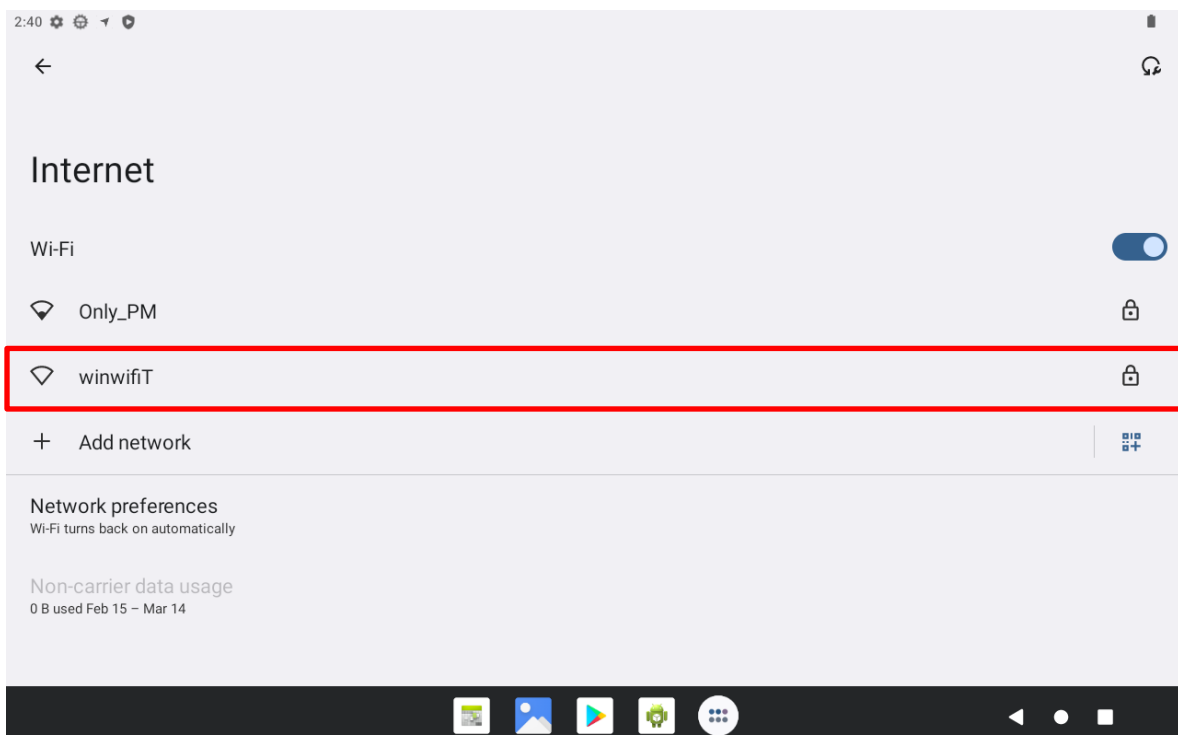
1. Swipe from the bottom of the main desktop, tap **Settings** .
2. Tap **Network & Internet** .



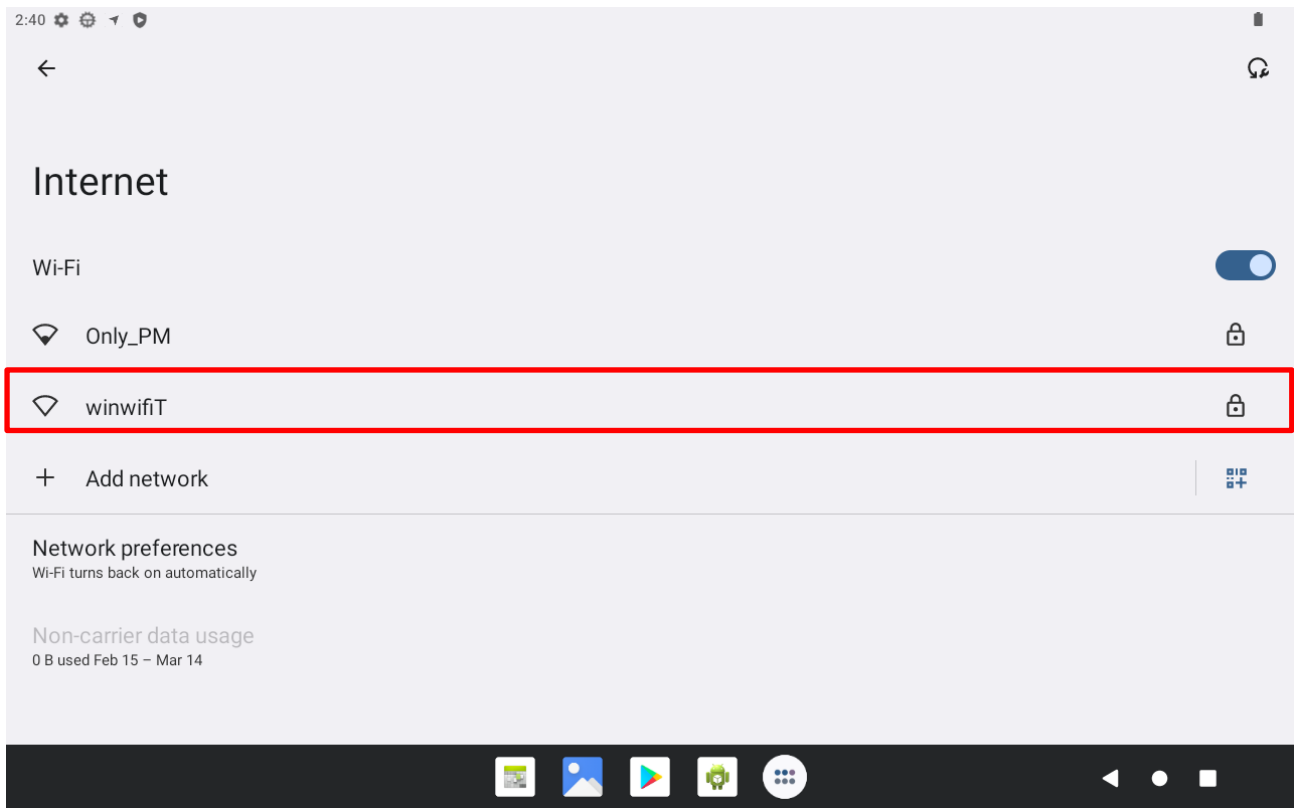
3. Tap **Internet** and then toggle the on/off switch on the top-right hand side to turn on the **Wi-Fi**. The device scans for available Wi-Fi networks and displays the list of it. Secured networks are indicated with a lock icon. If the HMI finds a network that you have connected previously, it connects 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.

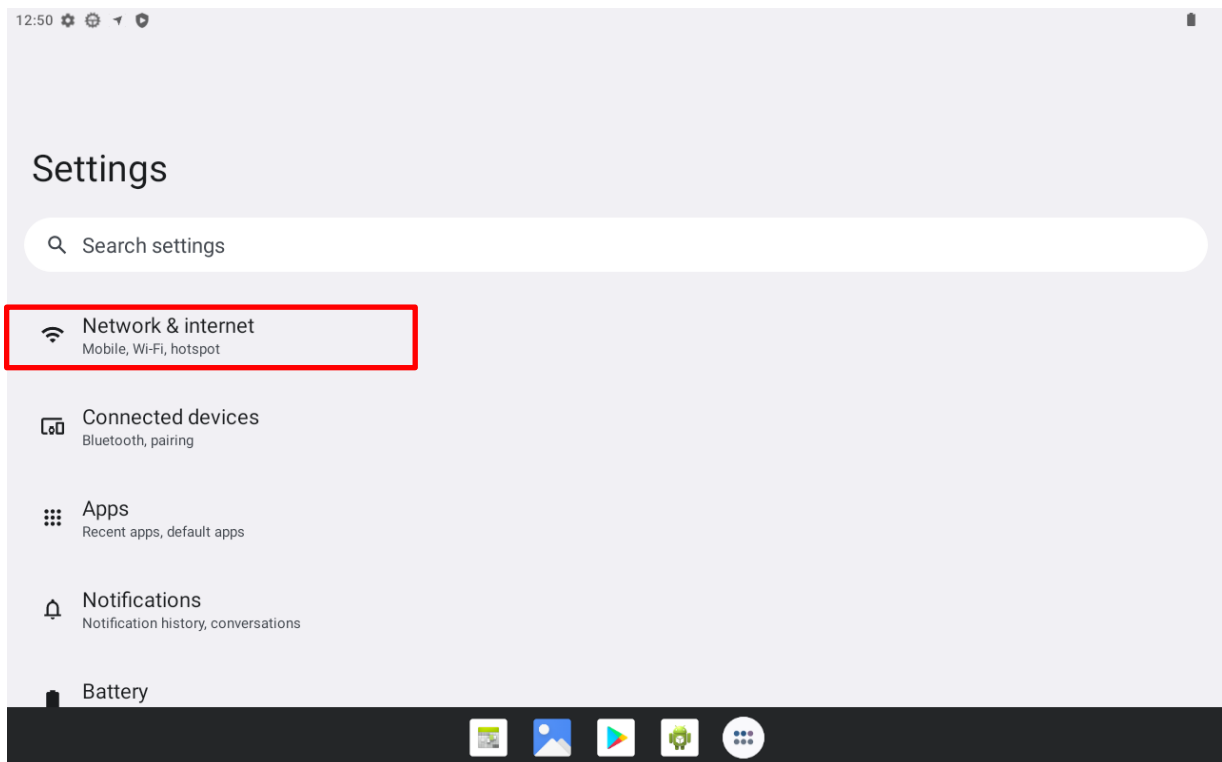


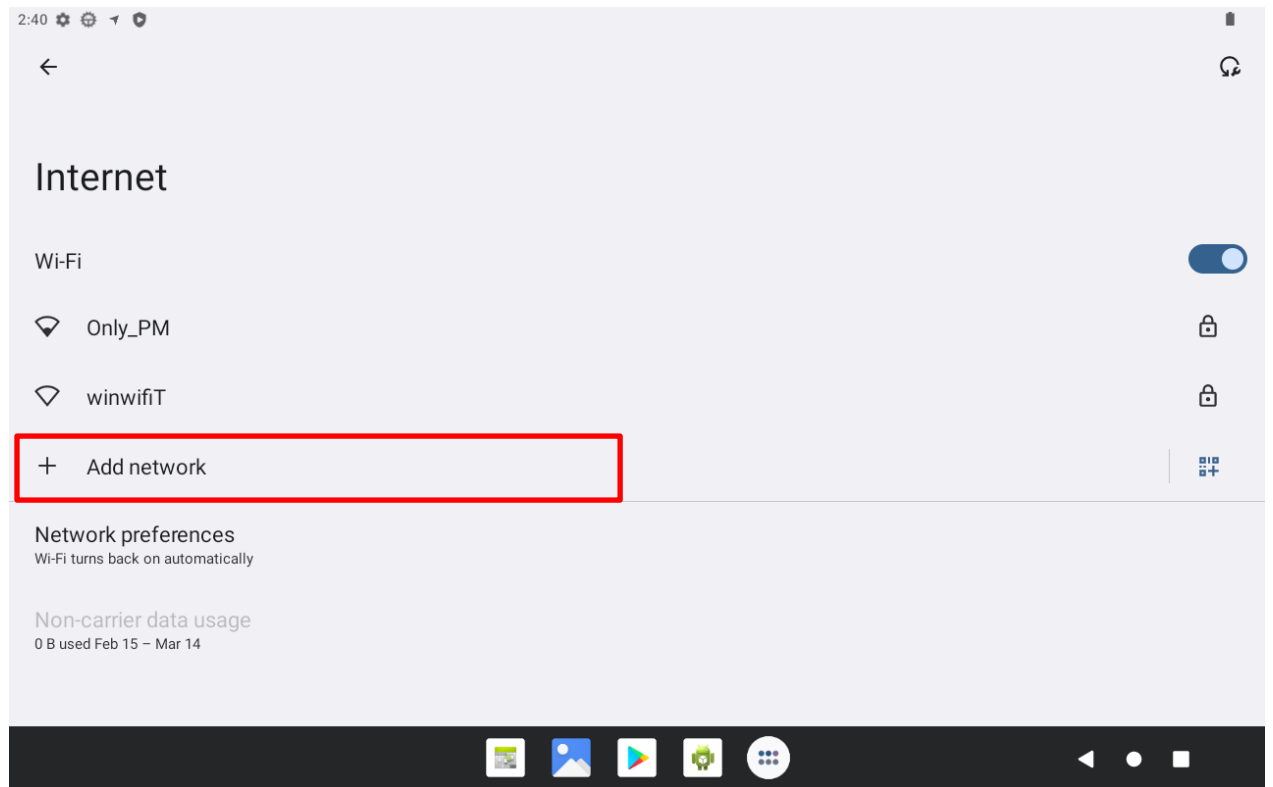
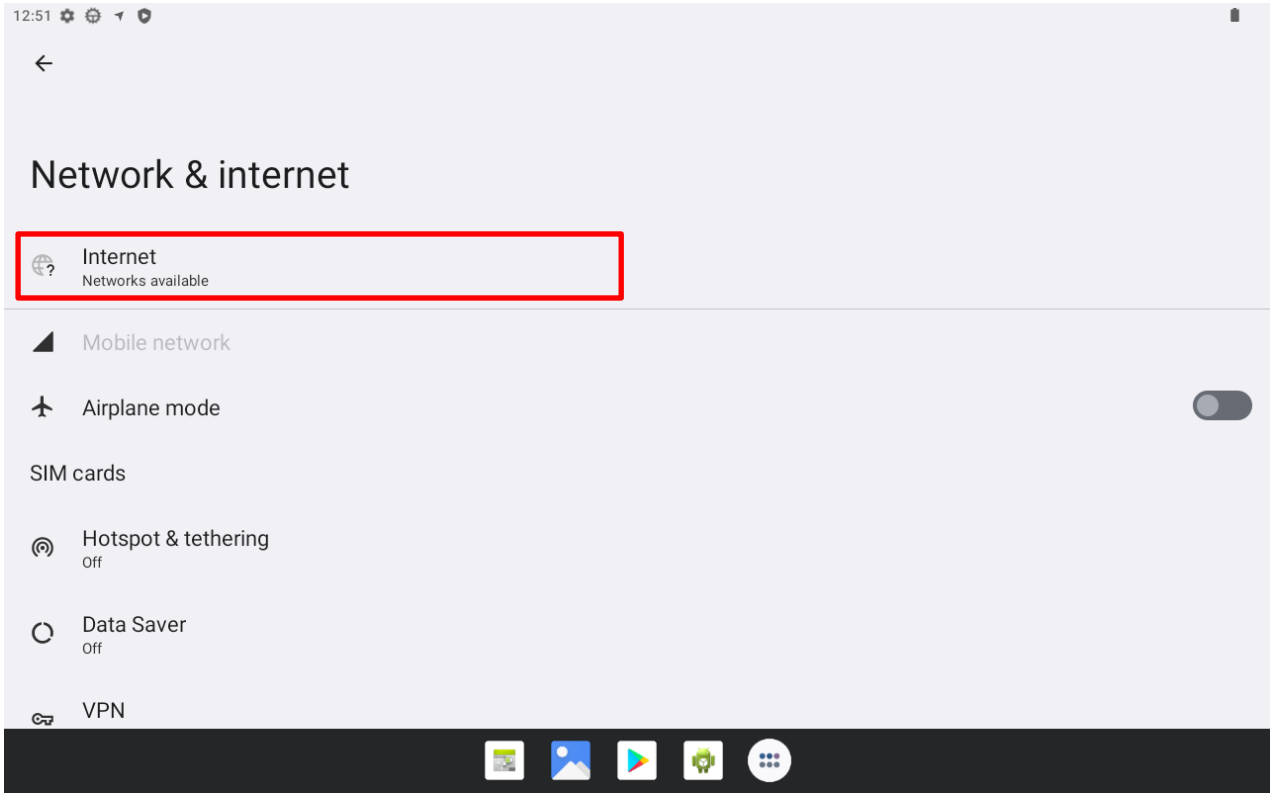
5. To check the details about the speed, security, address and related settings, tap its name in the Wi-Fi settings screen.



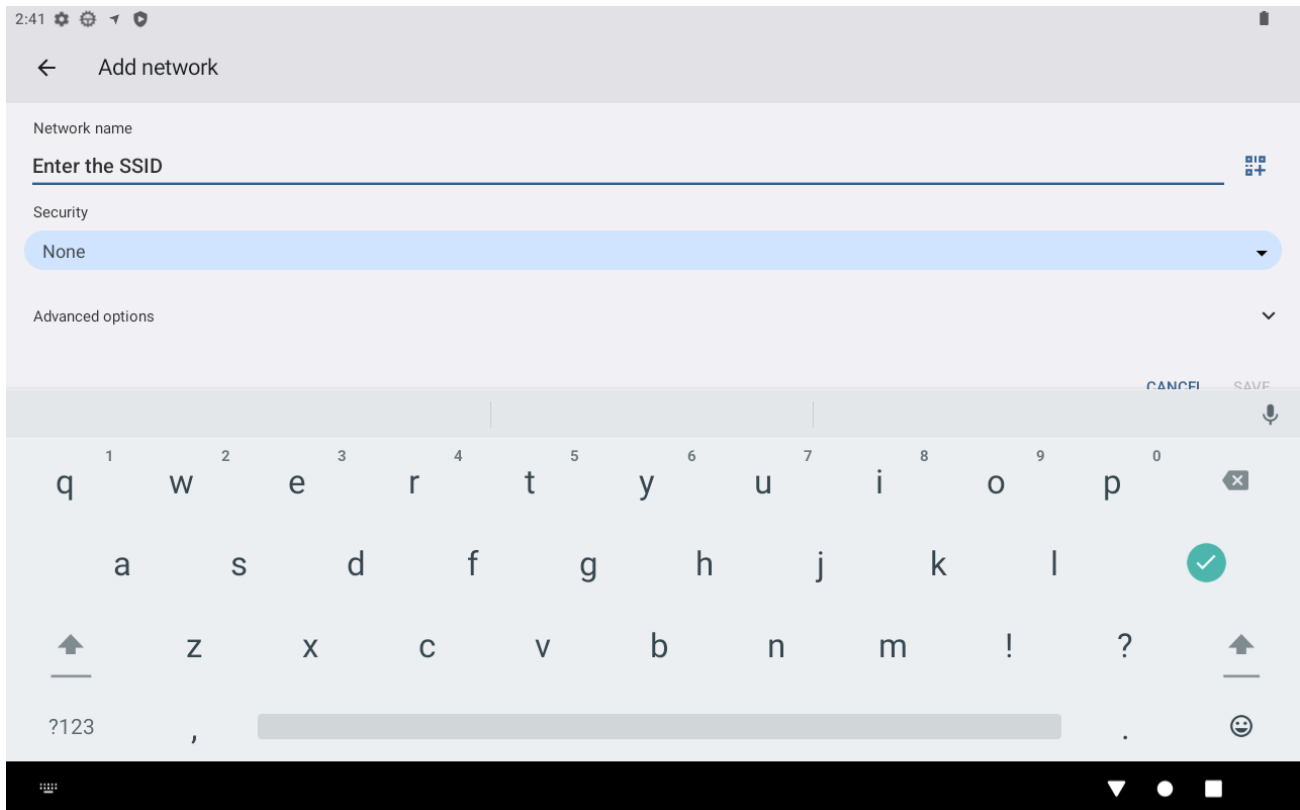
5.1.2 Adding Wi-Fi Network

1. Turn on Wi-Fi, in the Wi-Fi 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.

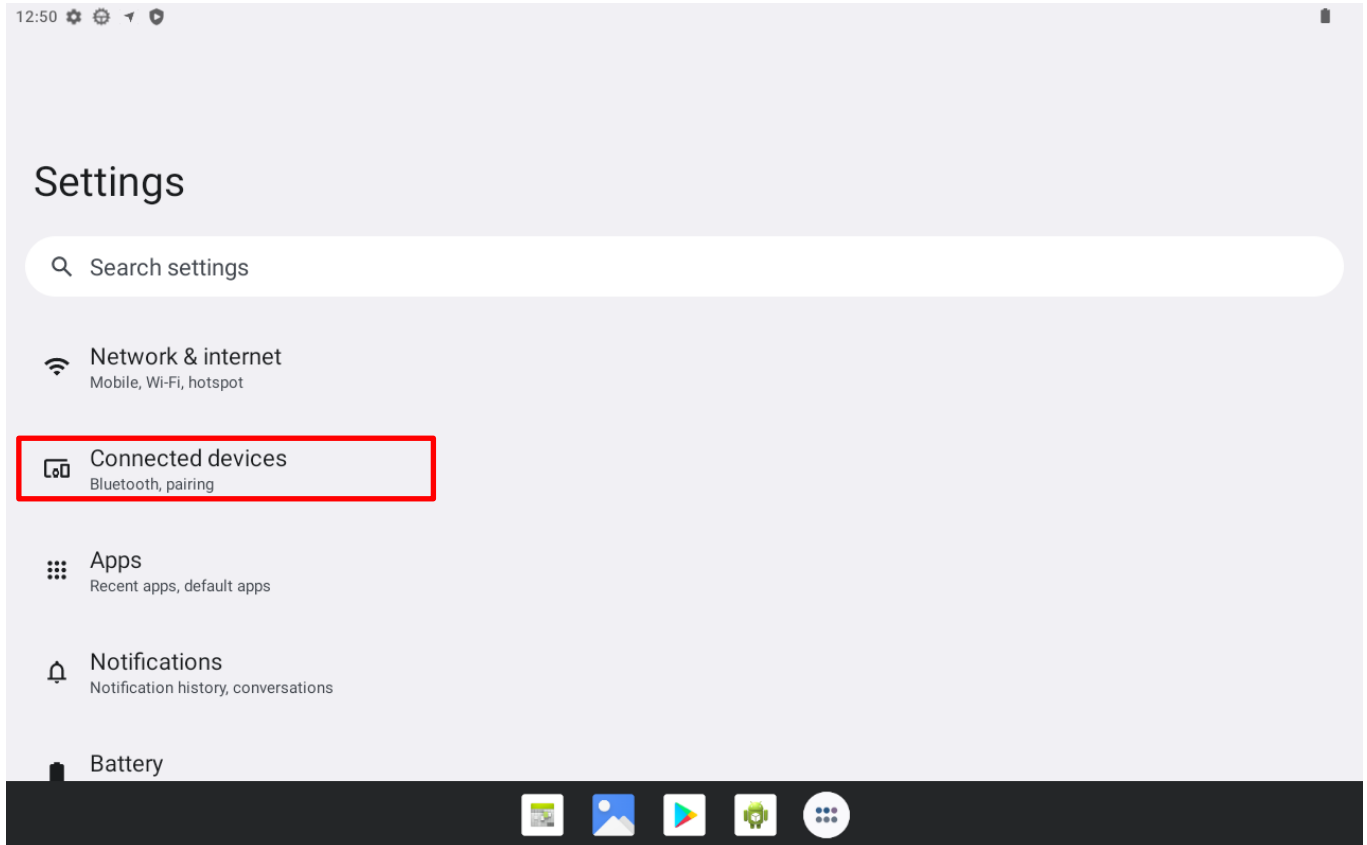


3. Enter any required security credentials.
4. Tap **Save**.

5.2 Connecting to BT Devices (Optional)



5.2.1 Turning BT On or Off

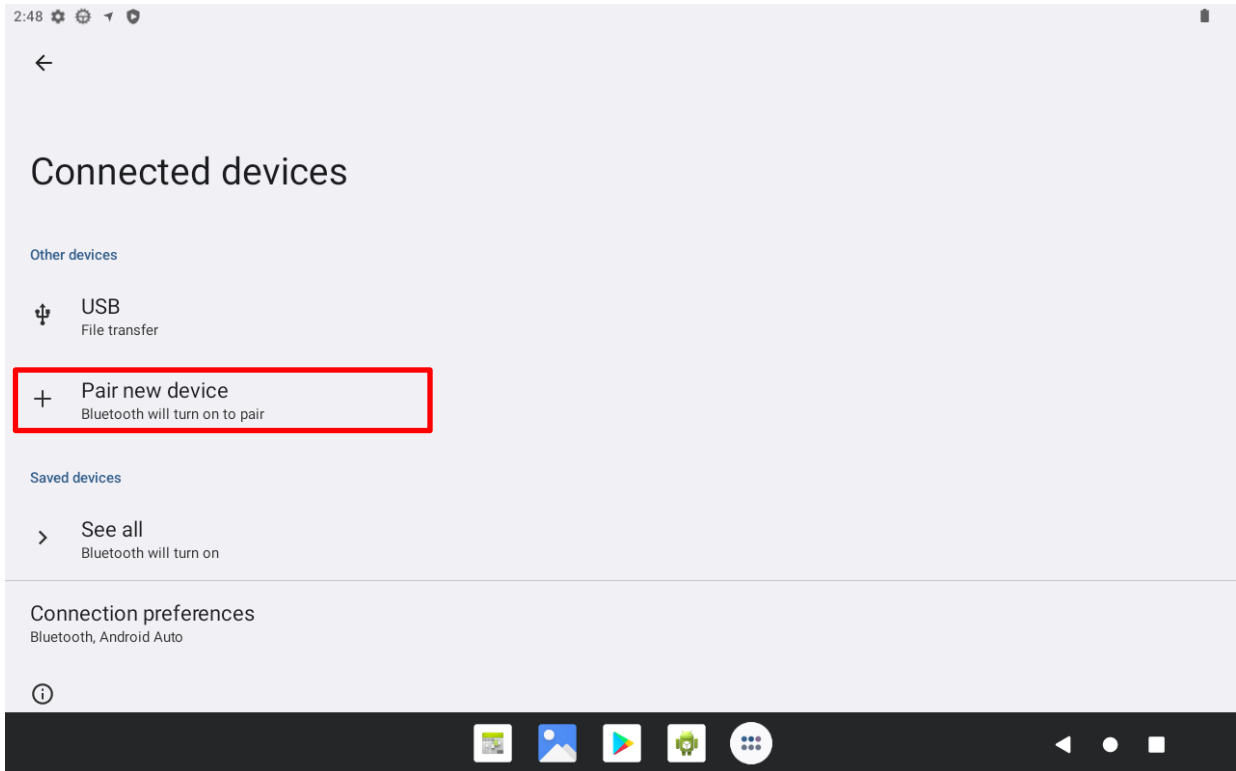
1. Swipe from the bottom of the main desktop, tap **Settings** .
2. Tap **Connected Devices** .



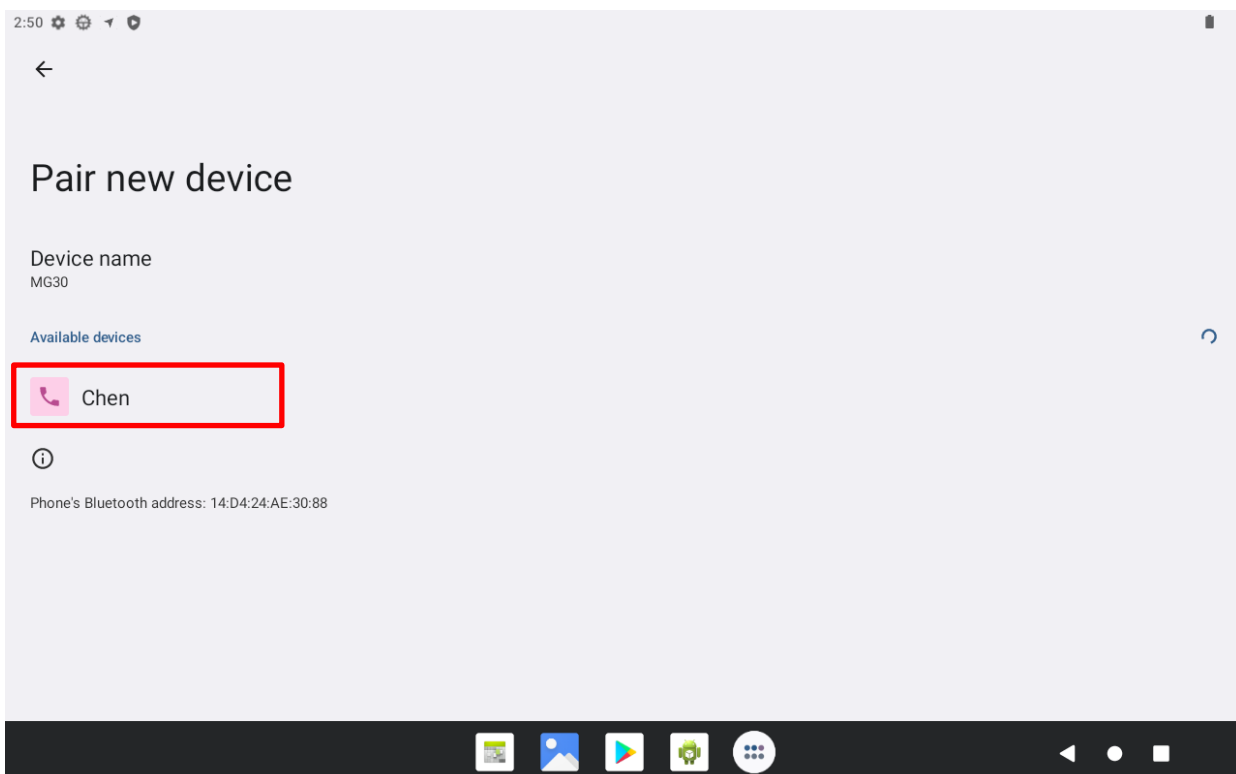
3. Tap **Connected Devices** preferences, and then toggle the on/off switch on the top-right hand side to turn on the BT.

5.2.2 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

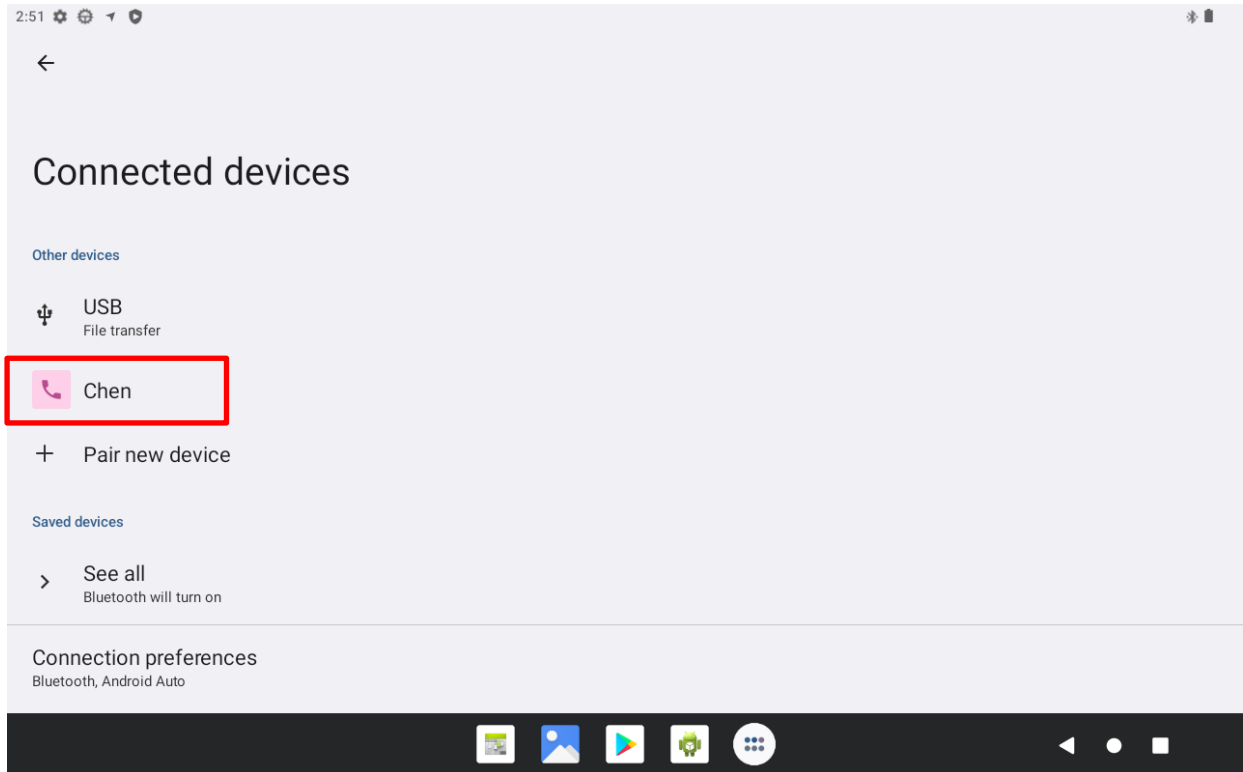


4. Select the device to be paired.

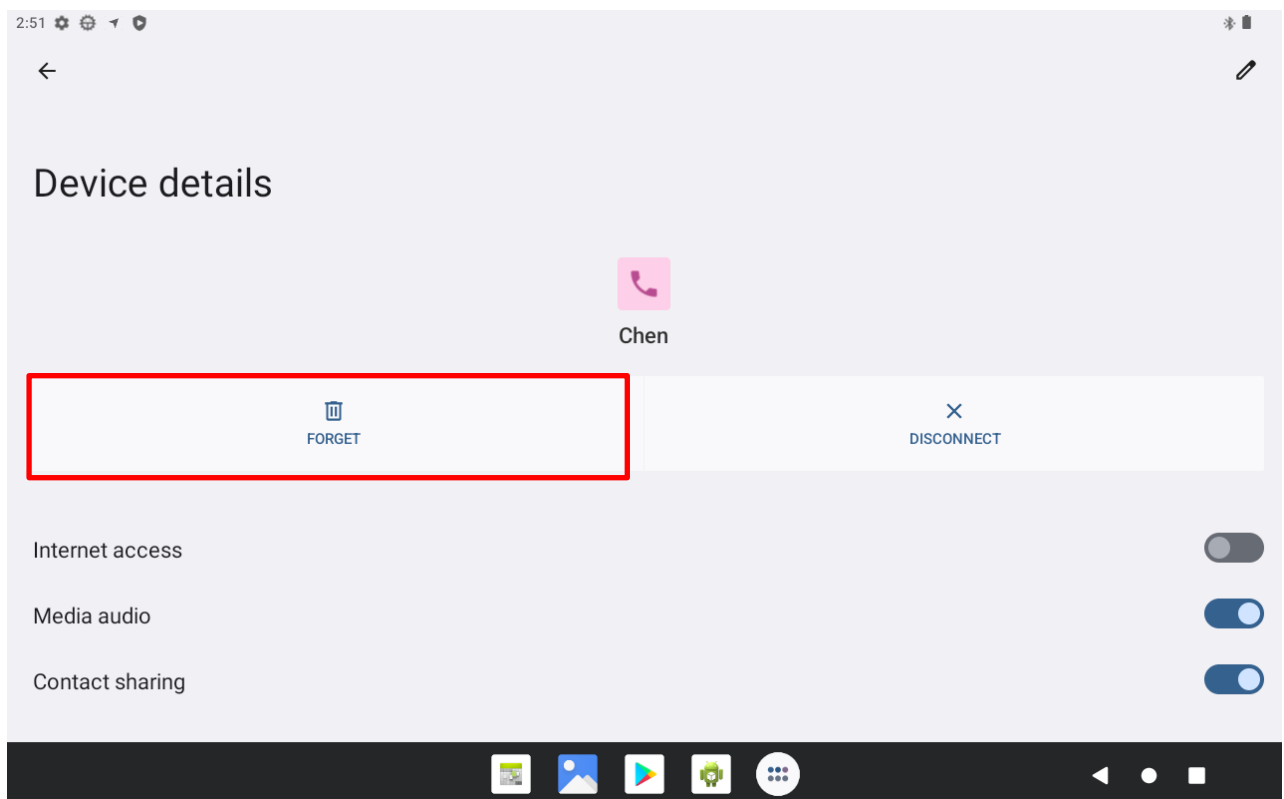


5.2.3 Disconnecting BT Device

1. Tap the device in the **BT** settings screen.



2. Tap **FORGET** to disconnect.



5.3 Connecting to Computer via USB



User can connect their HMI to a computer with USB cable to transfer files between HMI and computer.

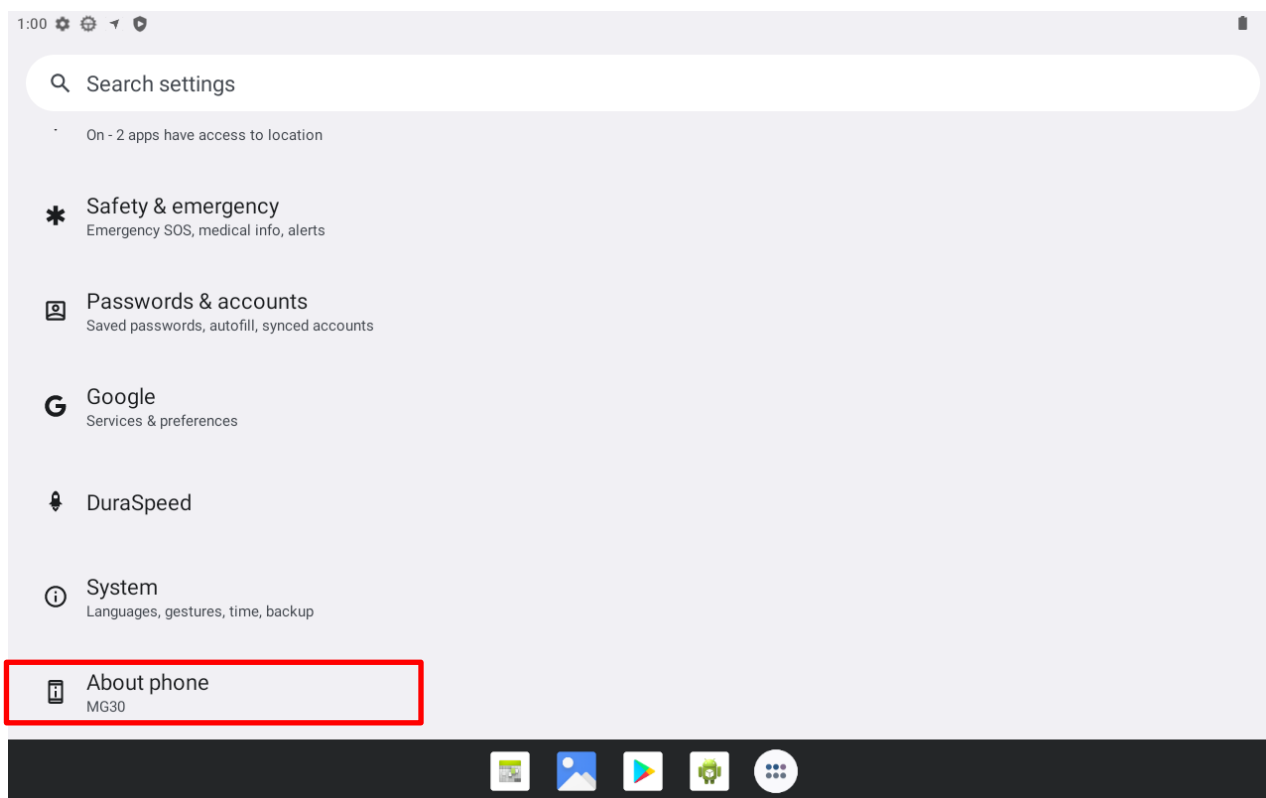


Important: When connecting your HMI to a computer and inserting its USB storage or SD card, user must follow the computer's instructions for connecting and disconnecting USB device, to avoid damaging or corrupting files. Notice that the E Series HMI cannot be charged via USB.

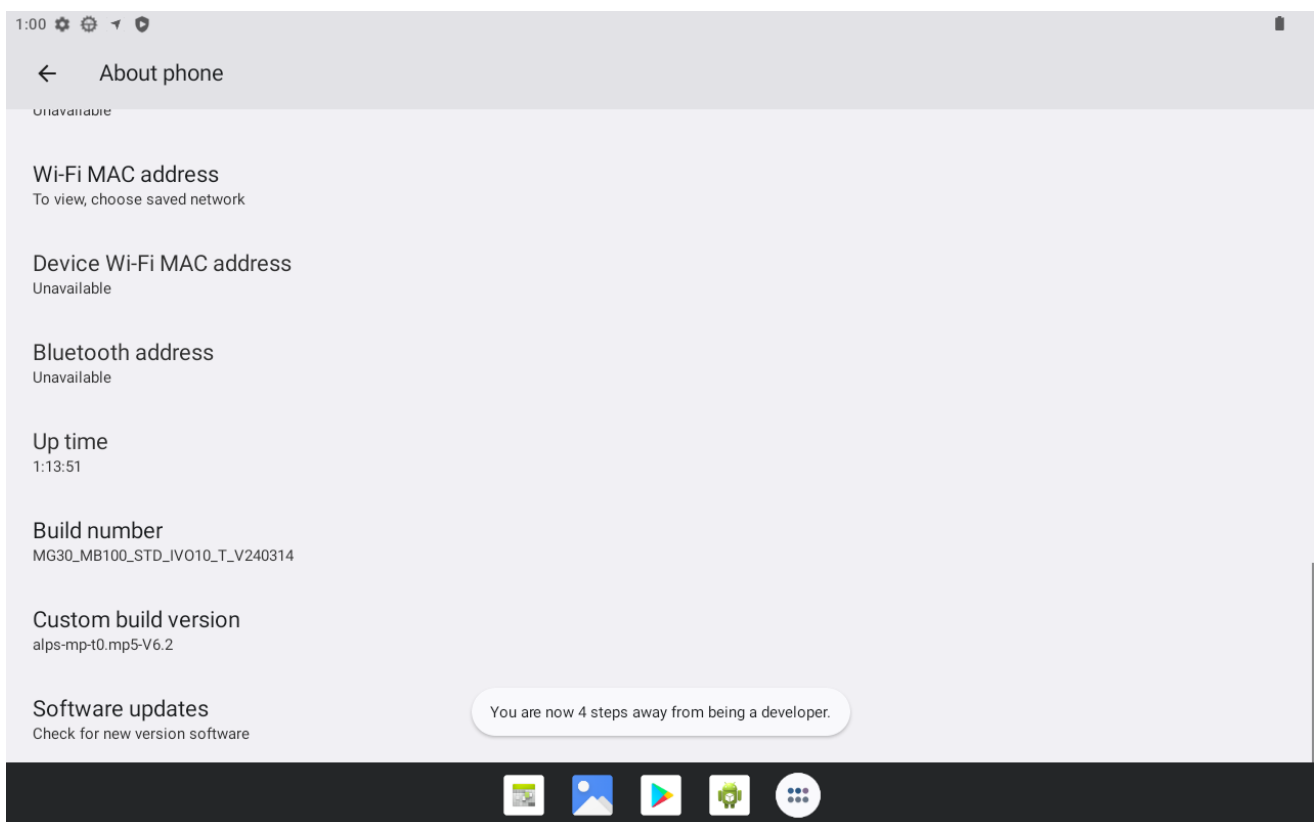
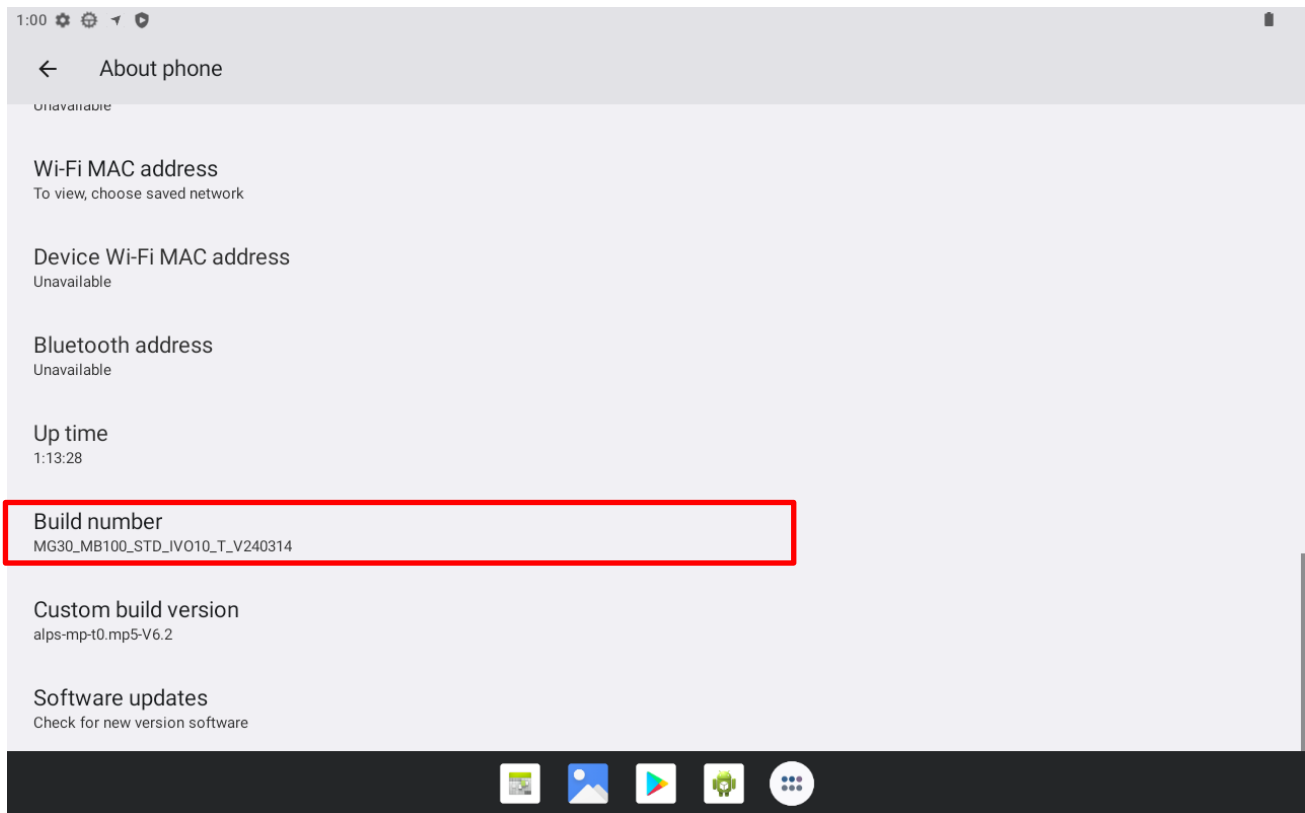
5.3.1 USB Debugging Settings

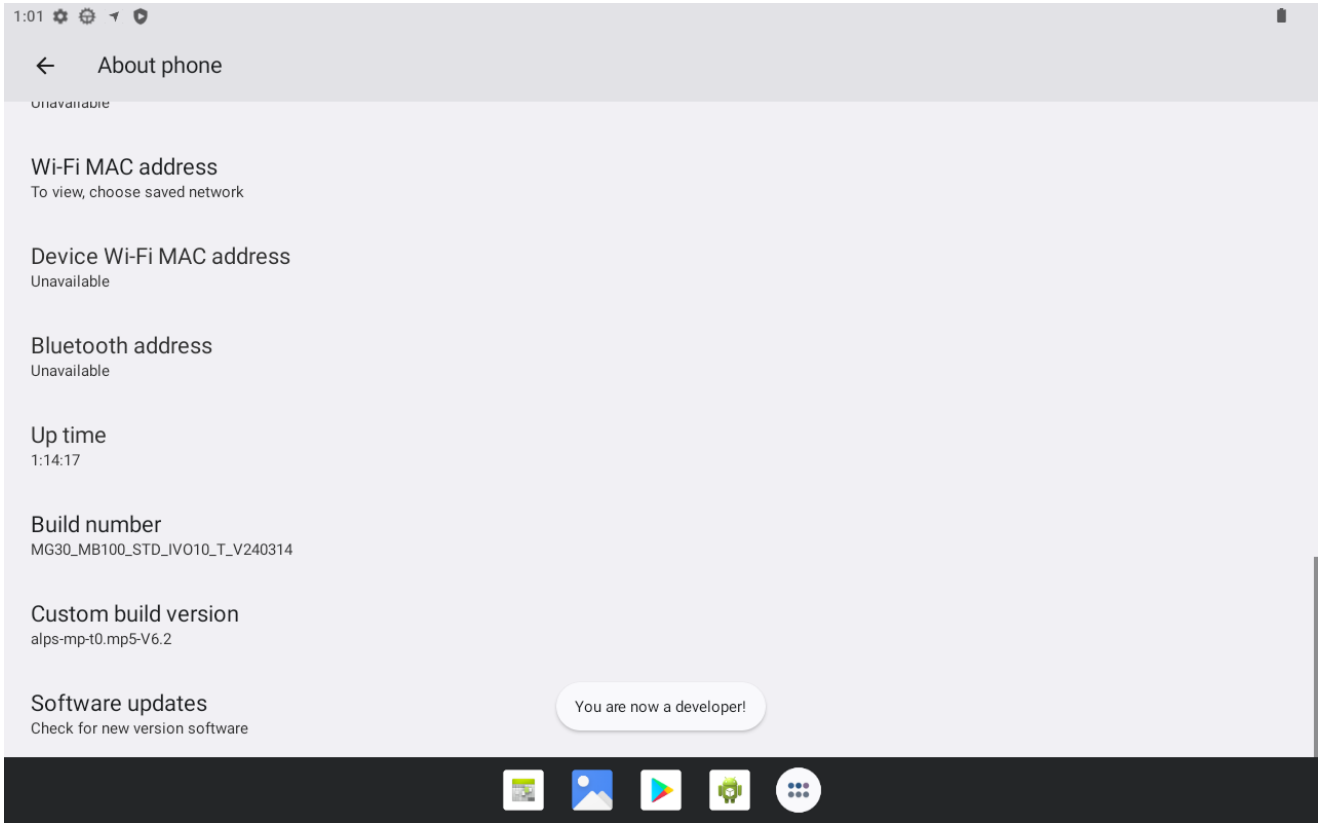
To permit debugging tools on a computer to communicate with User's HMI via USB Connection.

1. Connect HMI to the computer via USB cable.
2. Swipe from the bottom of the main desktop, tap **Settings** , and tap **About phone** .

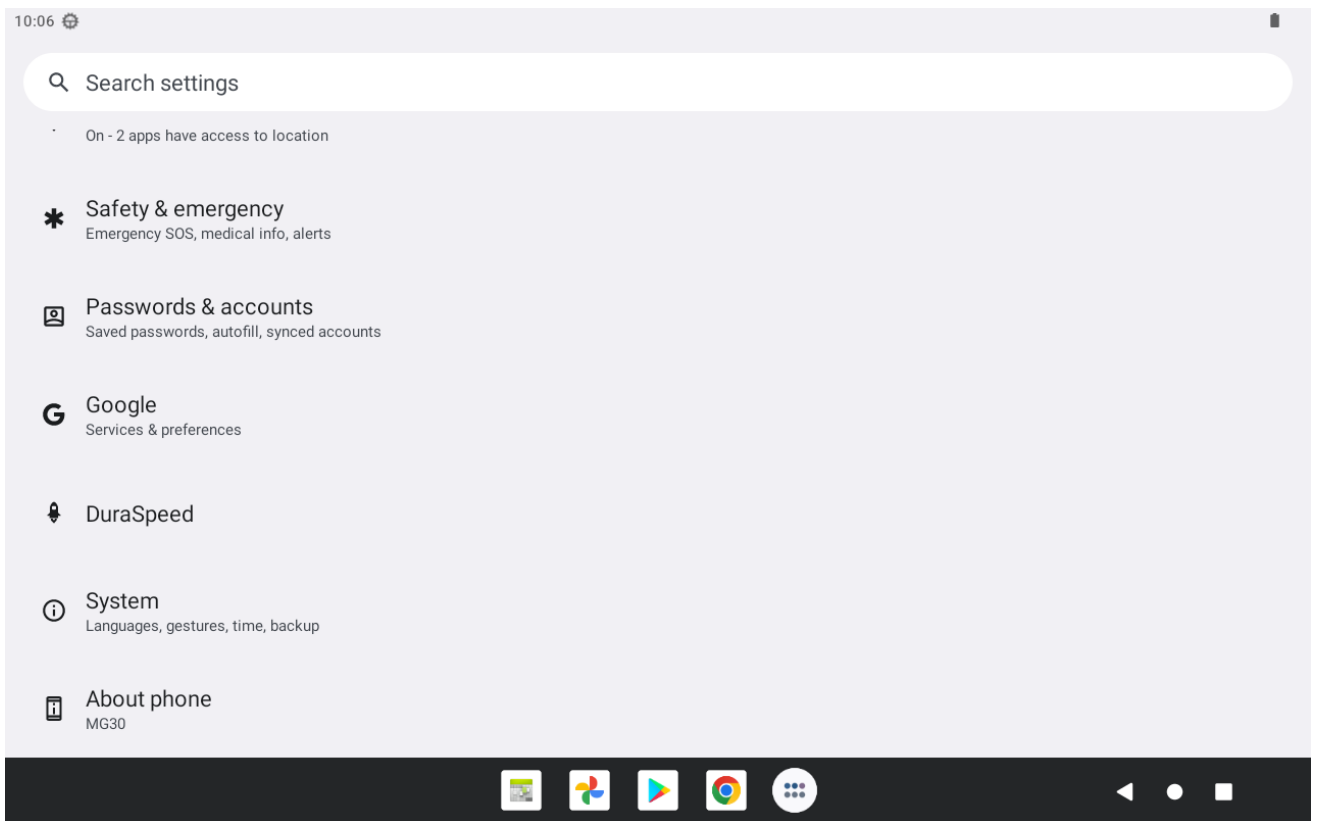



3. Tap **Build number** 7 times to access the developer mode.

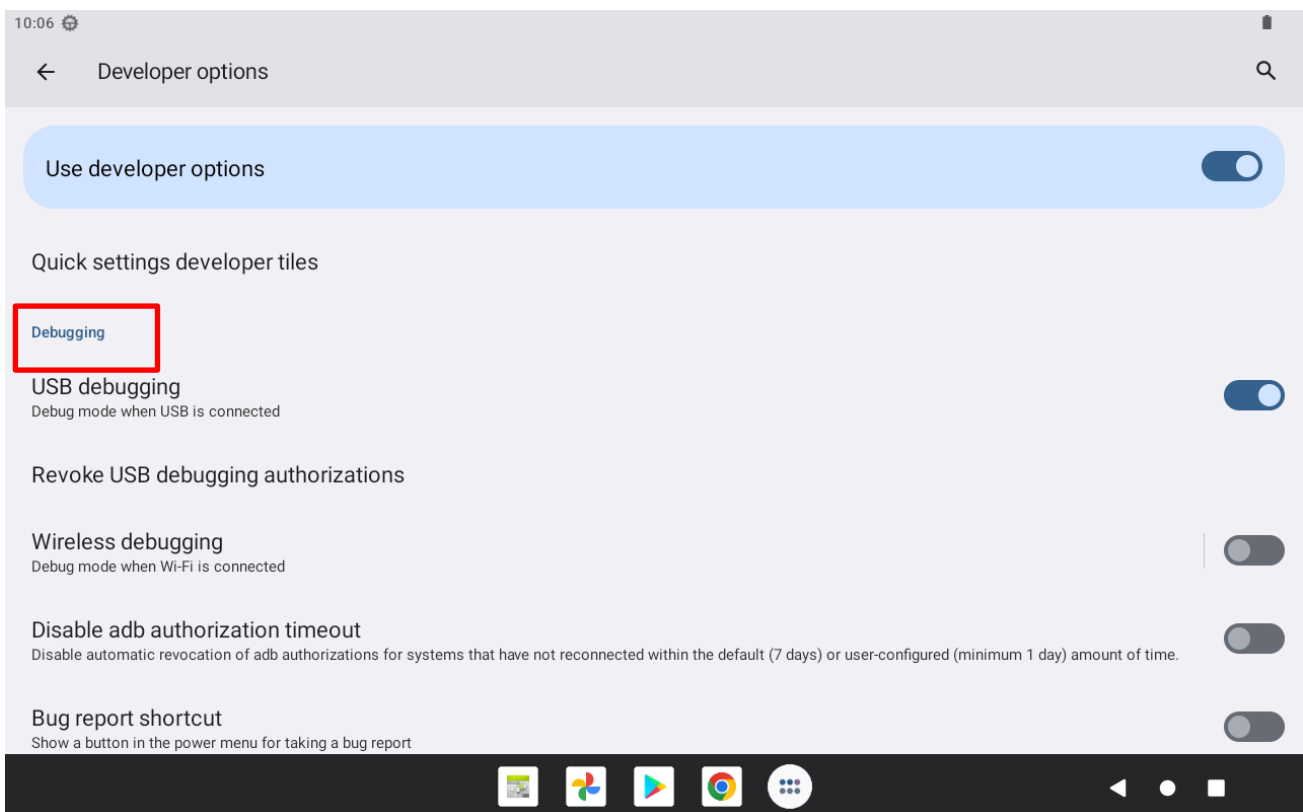
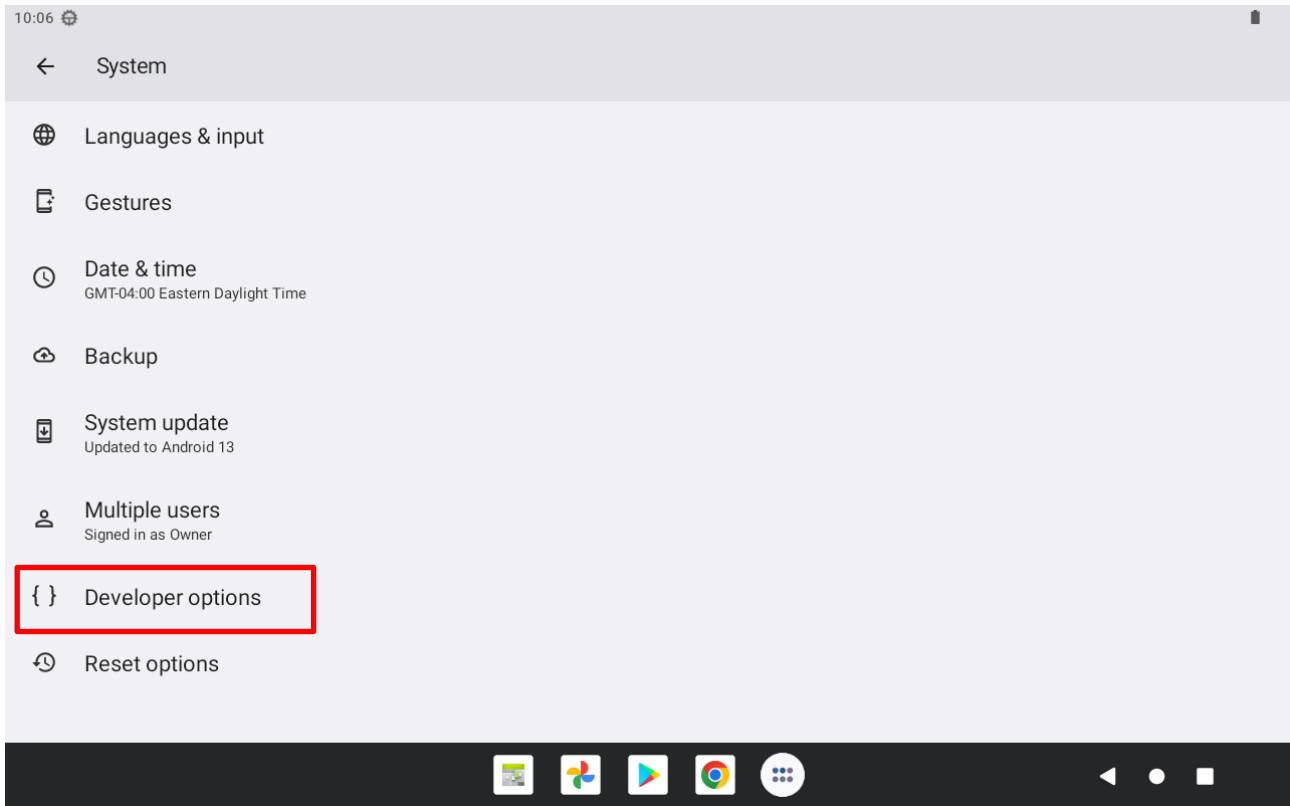




4. Back to the **Setting**, and then tap **System**



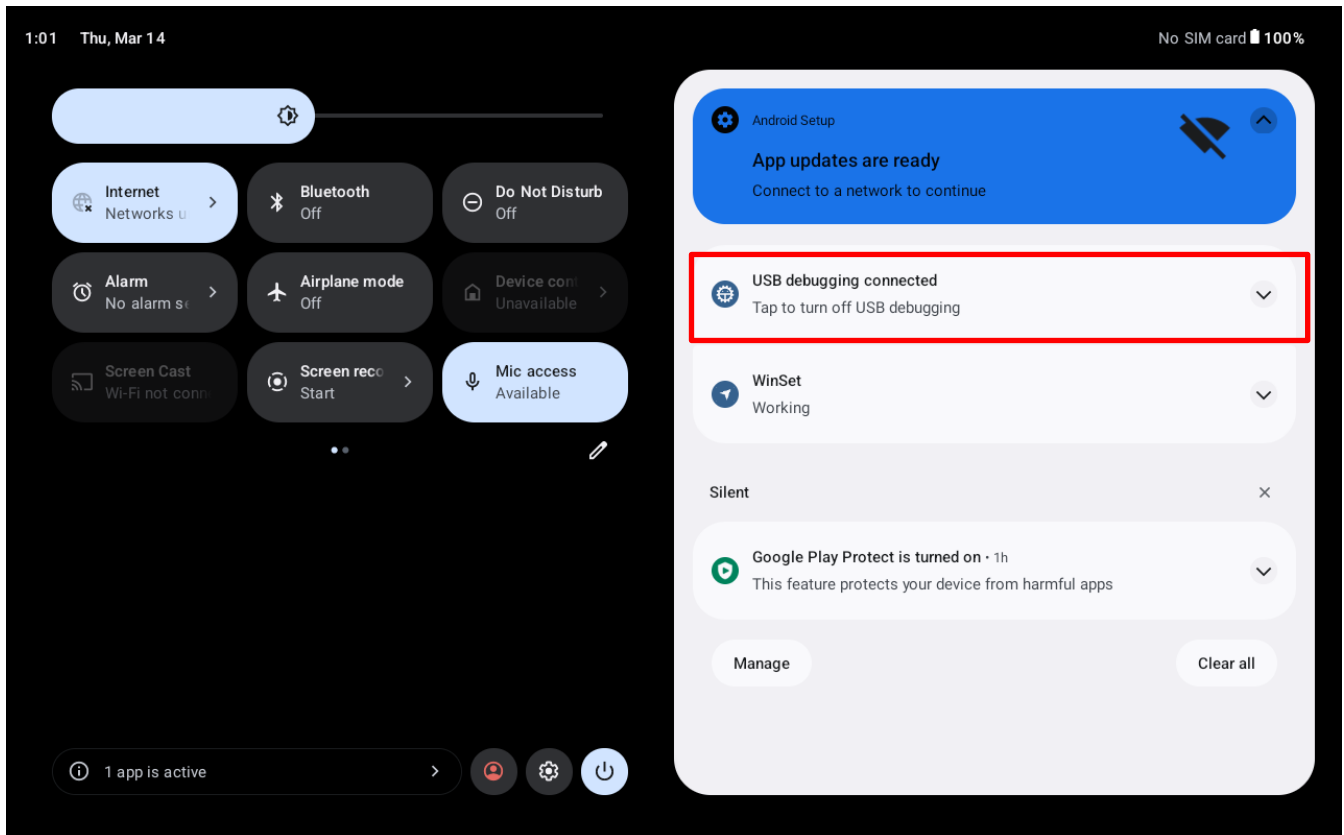
5. In the **Developer options**  user can choose the action to perform.





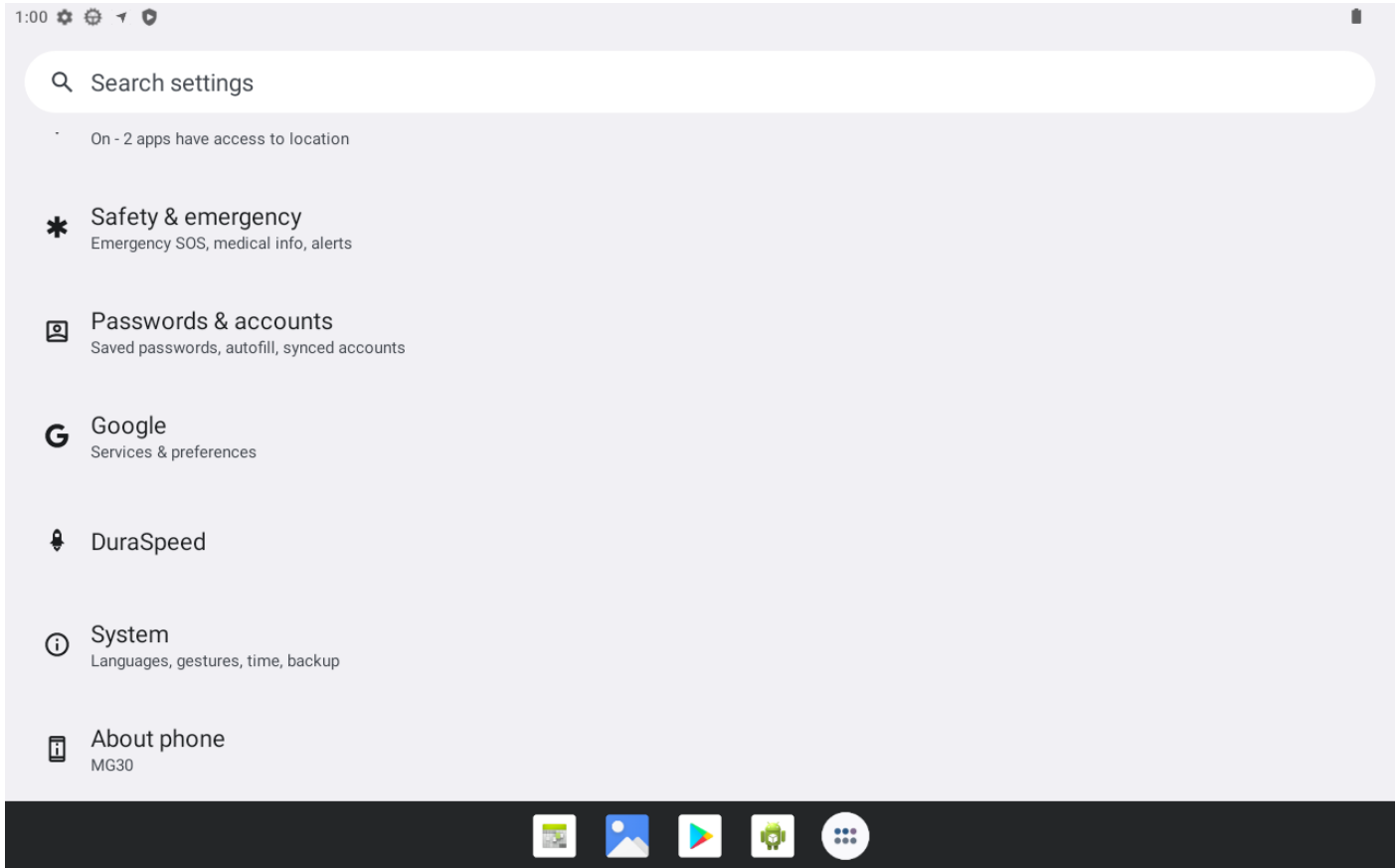
Important: Carefully follow your computer's instructions to un-mount the USB storage or SD card. Disconnect USB device not properly can cause a loss of important data or information.

6. Pull down the screen to open notification panel. Tap **USB debugging connected**.

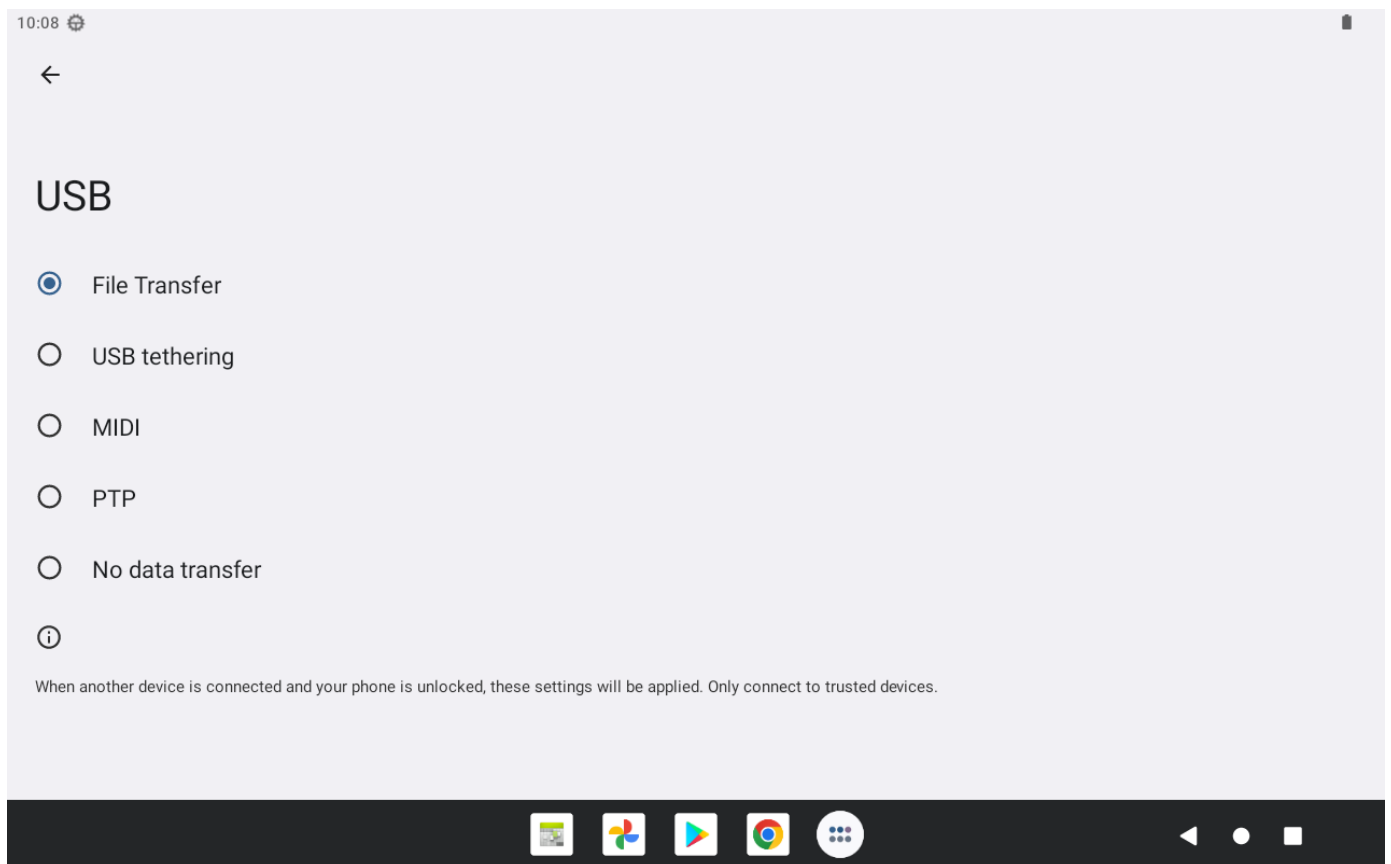
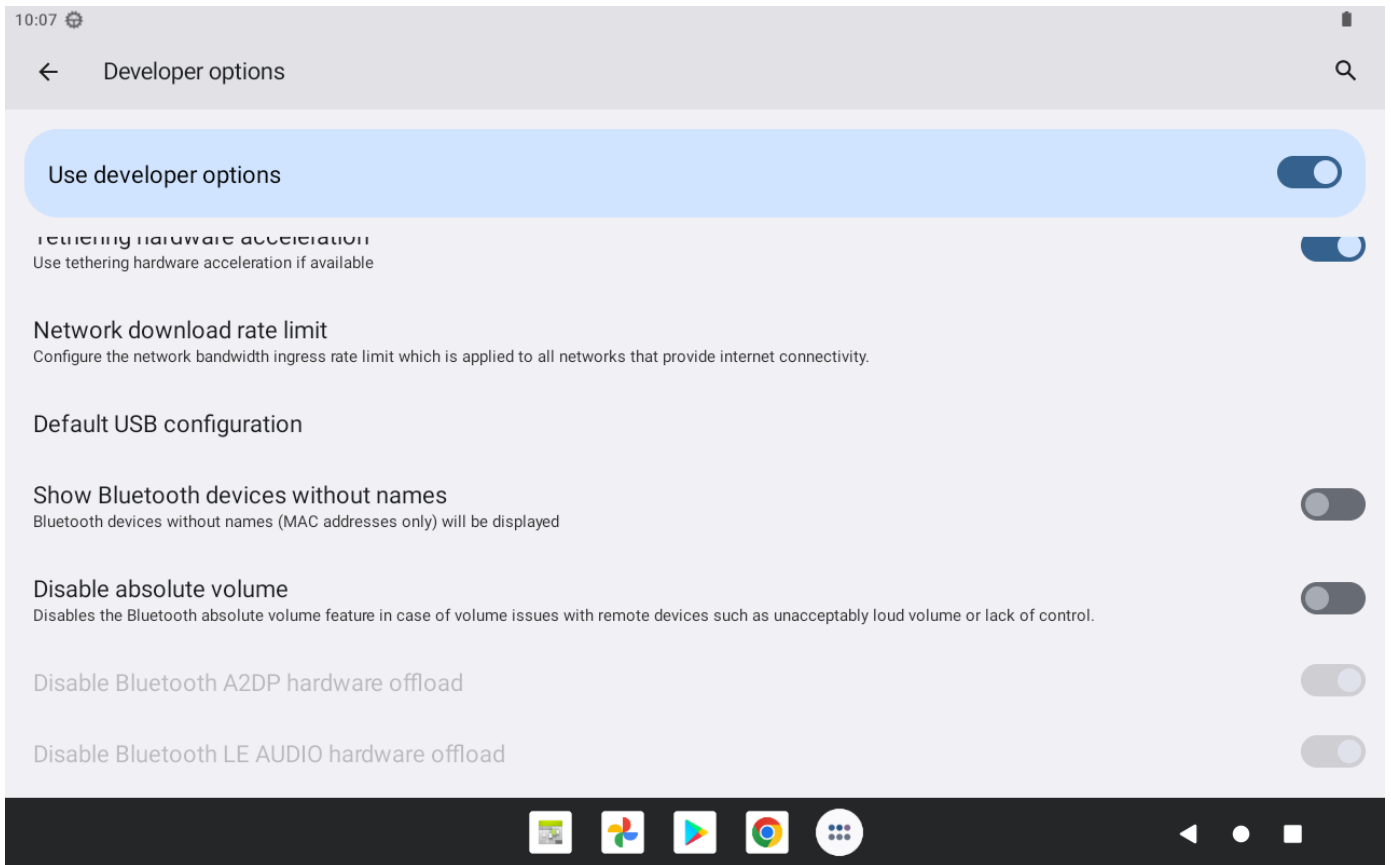


5.3.2 USB Computer Connection

1. Connect HMI to the computer via USB connector.
2. Tap **System** ⓘ, tap Develop options.



3. **Default USB Configuration** choose the type of USB connection.
 - **File Transfer** – let user transfers files between computer and HMI.
 - **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.



Chapter 6: Mounting

This chapter provides mounting guide for all available mounting options. Pay attention to cautions and warning to avoid any damages.

6.1 Cable Mounting Considerations

For a nice look and safe installation, make sure cables are neatly hidden behind the HMI device.

Refer to [Chapter 2.1](#) for the cable installation instruction.



CAUTION/ ATTENTION

Observe all local installation requirements for connection cable type and protection level.

Suivre tous les règlements locaux d'installations, de câblage et niveaux de protection.



CAUTION/ ATTENTION

Turn off the device and disconnect other peripherals before installation.

Éteindre l'appareil et débrancher tous les périphériques avant l'installation.



ALTERNATING CURRENT / MISE À LE TERRE!

To prevent electrical shock, the Safety Ground location on the rear must be bonded to the local earth ground through a minimum 12 AWG wire as short as possible

Pour éviter les chocs électriques, l'emplacement de la prise terre à l'arrière doit être lié à terre locale, à travers un 12 AWG minimum et aussi court que possible.

6.2 Safety Precautions

Observe the following common safety precautions before installing any electronic device:

- Use separate, non-intersecting paths to route power and networking wires. If power wiring and device wiring paths must be crossed make sure the wires are perpendicular at the intersection point.
- Keep the wires separated according to the interface. Wires that share similar electrical characteristics must be bundled together.
- Do not bundle input wiring with output wiring. Keep them separate.
- When necessary, it is strongly advised that you label wiring to all devices in the system.

6.3 Mounting Guide

S-series HMI devices come with different mounting options suitable for most of the industrial and commercial applications. The main mounting approach is rear mount - very user-friendly in terms of installation. Refer to sub-sections below for more details.



CAUTION/ ATTENTION

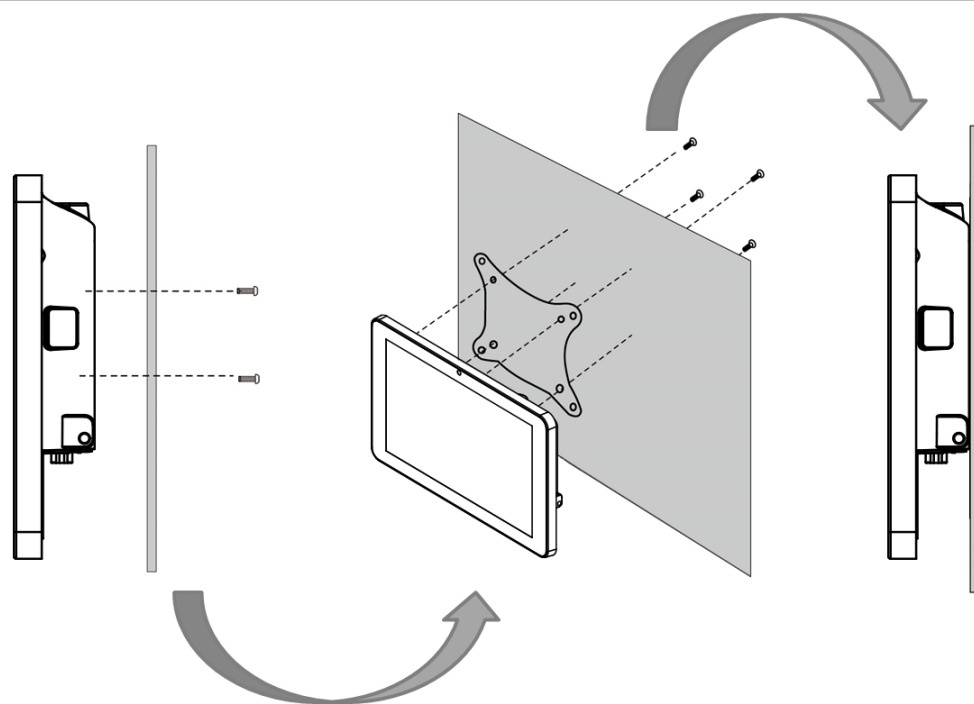
Follow mounting instructions and use recommended mounting hardware to avoid the risk of injury.

Suivez les instructions de montage et d'utilisation recommandé le matériel de montage pour éviter le risque de blessure.

6.3.1 VESA Mount

VESA Mount is a widely used mounting solution suitable for all kinds of industrial applications. Notice that VESA Mount solution for 7" series HMI need a VESA bracket.

Model Name	Dimensions	Screw Hole Diameter
W07MG3S-PCT1AC-POE	30.5 x 38.1 mm	VESA M5 x 5 mm
W07MG3S-PCT1-POE	30.5 x 38.1 mm	VESA M5 x 5 mm
W07MG3S-PCO1AC-POE	30.5 x 38.1 mm	VESA M5 x 5 mm
W07MG3S-PCO1-POE	30.5 x 38.1 mm	VESA M5 x 5 mm
W10MG3S-PCH2AC-POE	75 x 75 mm	VESA M4 x 5 mm
W10MG3S-PCH2-POE	75 x 75 mm	VESA M4 x 5 mm
W10MG3S-PCH2LB-POE	75 x 75 mm	VESA M4 x 5 mm
R12MG3S-PCM2AC-POE	75 x 75 mm	VESA M4 x 5 mm
R12MG3S-PCM2-POE	75 x 75 mm	VESA M4 x 5 mm
R15MG3S-PCC3AC-POE	100 x 100 mm	VESA M6 x 5 mm
R15MG3S-PCC3-POE	100 x 100 mm	VESA M6 x 5 mm



**with customer's bracket*

Mounting Steps:

1. Screw VESA bracket to the fixture (ex. wall) with four M4 x 3 mm VESA screws.
2. Place the device on VESA bracket.

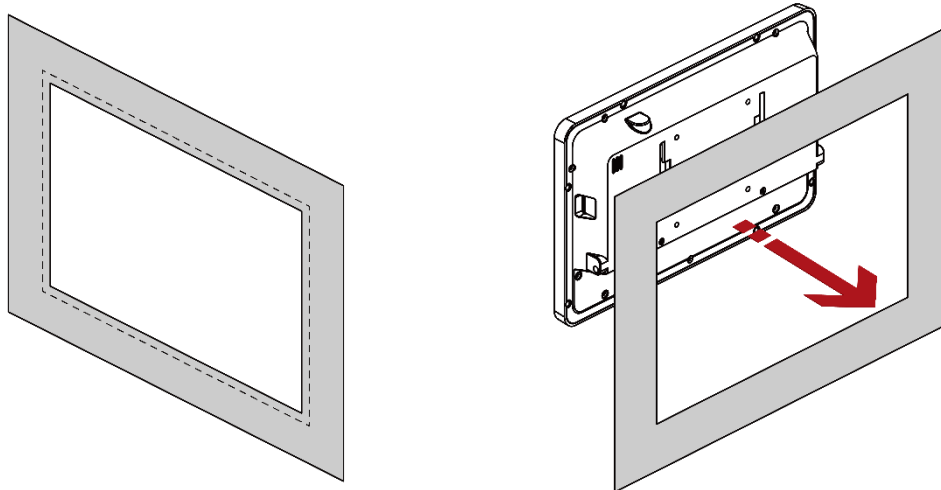
6.3.2 Panel Mount

Panel Mount solution is suitable for many applications where HMI should be embedded in the machine. With this mounting solution flat surface leave no bezel in the front. In addition to elegant design, rear mount solution is making the HMI unit easy to clean and maintain. The HMI device is secured to the fixture from the rear by using the mounting brackets included in the package.

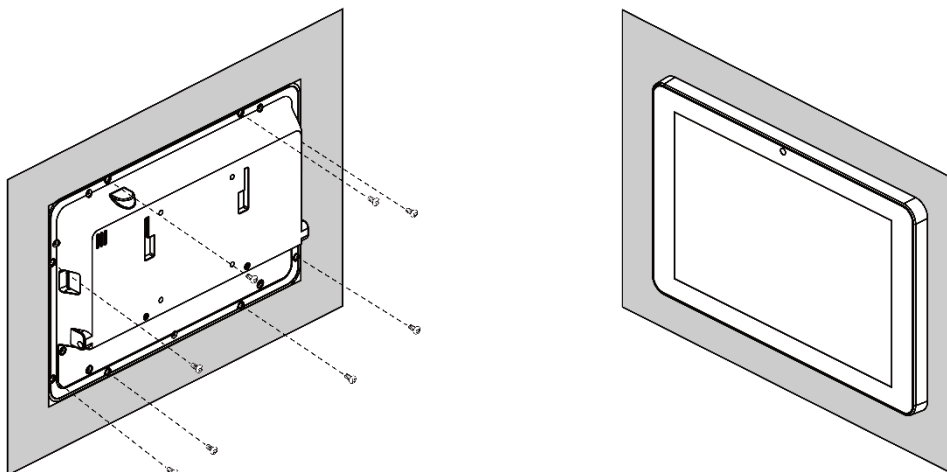
Size	7"	10.1"	12.1"	15"
Cutout dimension (W x D in mm)	175.5 x 131.5	250 x 159	282 x 207	346.5 x 261

Mounting Steps:

1. Prepare a cutout on a fixture according to the cutout dimensions. Place the device on the fixture.



2. Secure the HMI to the fixture by screws. Connect power and other peripherals to the HMI unit.



Appendix A: Product Specifications

	Model Name			
	W07MG3S-PCT1AC-POE	W07MG3S-PCT1-POE	W07MG3S-PCO1AC-POE	W07MG3S-PCO1-POE
Display				
Size/ Type	7"	7"	7"	7"
Resolution	1024 x 600	1024 x 600	1024 x 600	1024 x 600
Brightness	320 nits	320 nits	1000 nits	1000 nits
Contrast Ratio	1000 : 1	1000 : 1	700 : 1	700 : 1
Viewing Angle	75,75,75,70	75,75,75,70	75,75,75,70	75,75,75,70
Touch	Projected Capacitive Multi-Touch			
Mechanical Specifications				
Dimensions, mm	189.4 x 145.4 x 40	189.4 x 145.4 x 40	189.4 x 145.4 x 40	189.4 x 145.4 x 40
Mounting	Panel mount VESA Mount			
Cooling	Fanless design			
Enclosure	Aluminum			
System Specifications				
Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz			
System Memory	4GB LPDDR4			
Operating System	Android 13 Linux Yocto (Optional) Linux Ubuntu (Optional)			
Storage	32GB eMMC			
BT	Optional			
WLAN	Optional			
RFID	HF RFID Reader 13.56 MHz (Optional)			
Light Bar	Built-in RGB LED Status Light Bar	-	Built-in RGB LED Status Light Bar	-
Input / Output				
USB Ports	2 x USB 2.0 (Type A), 1 x USB 2.0 Type C (OTG)			
COM Port	1 x RS232/422/485 (Default RS232)			
LAN	1 x LAN 10/100/1000 Mbps			
SD Slot	1 x Micro SD Card Slot			
Video	1 x Micro HDMI (Optional)			
Audio	1 x Speaker			
Front Camera	2 MP Camera (Optional)			
Power Specifications				
Power Input	12V DC with Terminal Block			
PoE	PoE (PD): follows IEEE 802.3at (25 W)			
Adapter	12V 50W			
Environment Considerations				
Operating Temp.	0 ~ 50 °C			
Operating Humidity	10 ~ 90% (non-condensing)			
Storage Temperature	-20 ~ 60 °C			
Certification				
Certification	CE, FCC			

Note:

1. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
2. All specifications are subject to change without prior notice.

	Model Name				
	W10MG3S-PCH2AC-POE	W10MG3S-PCH2-POE	W10MG3S-PCH2LB-POE	R12MG3S-PCM2AC-POE	R12MG3S-PCM2-POE
	Display				
Size/ Type	10.1"	10.1"	10.1"	12.1"	12.1"
Resolution	1280 x 800	1280 x 1080	1280 x 800	1024 x 768	1024 x 768
Brightness	350 nits 1000 nits (Optional)	350 nits 1000 nits (Optional)	350 nits	500 nits	500 nits
Contrast Ratio	800:1	800:1	800:1	700:1	700:1
Viewing Angle	85,85,85,85	85,85,85,85	85,85,85,85	89,89,89,89	89,89,89,89
Touch	Projected Capacitive Multi-Touch				
	Mechanical Specifications				
Dimensions, mm	264 x 173 x 36	264 x 173 x 36	265 x 173 38	296 x 227 x 46	296 x 227 x 46
Mounting	Panel mount VESA Mount				
Cooling	Fanless design				
Enclosure	Aluminum	Plastic Front Bezel with Metal Back Cover	Plastic Front Bezel with Metal Back Cover	Aluminum	Aluminum
	System Specifications				
Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz				
System Memory	4GB LPDDR4				
Operating System	Android 13 Linux Yocto (Optional) Linux Ubuntu (Optional)				
Storage	32GB eMMC				
BT	Optional				
WLAN	Optional				
RFID	HF RFID Reader 13.56 MHz (Optional)				
Light Bar	Built-in RGB LED Status Light Bar, on both sides	-	Built-in All-Around RGB LED Light Bar	Built-in RGB LED Status Light Bar, on both sides	-
	Input / Output				
USB Ports	2 x USB 2.0 (Type A), 1 x USB 2.0 Type C (OTG)				
COM Port	1 x RS232/422/485 (Default RS232)				
LAN	1 x LAN 10/100/1000 Mbps				
SD Slot	1 x Micro SD Card Slot				
Video	1 x Micro HDMI (Optional)				
Audio	1 x Speaker	1 x Speaker	1 x Speaker	2 x Speaker	2 x Speaker
Front Camera	2 MP Camera (Optional)	2 MP Camera (Optional)	-	-	-
	Power Specifications				
Power Input	12V DC with Terminal Block 9 ~ 36V (Optional)				
PoE	PoE (PD): follows IEEE 802.3at (25 W)				
Adapter	12V 50W				
	Environment Considerations				
Operating Temp.	0 ~ 50 °C				

	Model Name				
	W10MG3S- PCH2AC-POE	W10MG3S- PCH2-POE	W10MG3S- PCH2LB-POE	R12MG3S- PCM2AC-POE	R12MG3S- PCM2-POE
Operating Humidity	10 ~ 90% (non-condensing)				
Storage Temperature	-20 ~ 60 °C				
	Certification				
Certification	CE, FCC				

Note:

1. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
2. All specifications are subject to change without prior notice.

	Model Name	
	R15MG3S-PCC3AC-POE	R15MG3S-PCC3-POE
Display		
Size/ Type	15"	15"
Resolution	1024 x 768	1024 x 768
Brightness	300 nits	300 nits
Contrast Ratio	2000:1	2000:1
Viewing Angle	88,88,88,88	88,88,88,88
Touch	Projected Capacitive Multi-Touch	Projected Capacitive Multi-Touch
Mechanical Specifications		
Dimensions, mm	363.40x277.86x44.5	363.40x277.86x44.5
Mounting	Panel mount VESA Mount	Panel mount VESA Mount
Cooling	Fanless design	Fanless design
Enclosure	Aluminum	Aluminum
System Specifications		
Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz
System Memory	4GB LPDDR4	4GB LPDDR4
Operating System	Android 13 Linux Yocto (Optional) Linux Ubuntu (Optional)	Android 13 Linux Yocto (Optional) Linux Ubuntu (Optional)
Storage	32GB eMMC	32GB eMMC
BT	Optional	Optional
WLAN	Optional	Optional
RFID	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Light Bar	Built-in RGB LED Status Light Bar, on both sides	-
Input / Output		
USB Ports	2 x USB 2.0 (Type A), 1 x USB 2.0 Type C (OTG)	2 x USB 2.0 (Type A), 1 x USB 2.0 Type C (OTG)
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
LAN	1 x LAN 10/100/1000 Mbps	1 x LAN 10/100/1000 Mbps
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Video	1 x Micro HDMI (Optional)	1 x Micro HDMI (Optional)
Audio	2 x Speaker	2 x Speaker
Front Camera	2 MP Camera (Optional)	2 MP Camera (Optional)
Power Specifications		
Power Input	12V DC with Terminal Block 9 ~ 36V (Optional)	12V DC with Terminal Block 9 ~ 36V (Optional)
PoE	PoE (PD): follows IEEE 802.3at (25 W)	PoE (PD): follows IEEE 802.3at (25 W)
Adapter	12V 50W	12V 50W
Environment Considerations		
Operating Temp.	0 ~ 50 °C	0 ~ 50 °C
Operating Humidity	10 ~ 90% (non-condensing)	10 ~ 90% (non-condensing)
Storage Temperature	-20 ~ 60 °C	-20 ~ 60 °C
Certification		
Certification	CE, FCC	CE, FCC

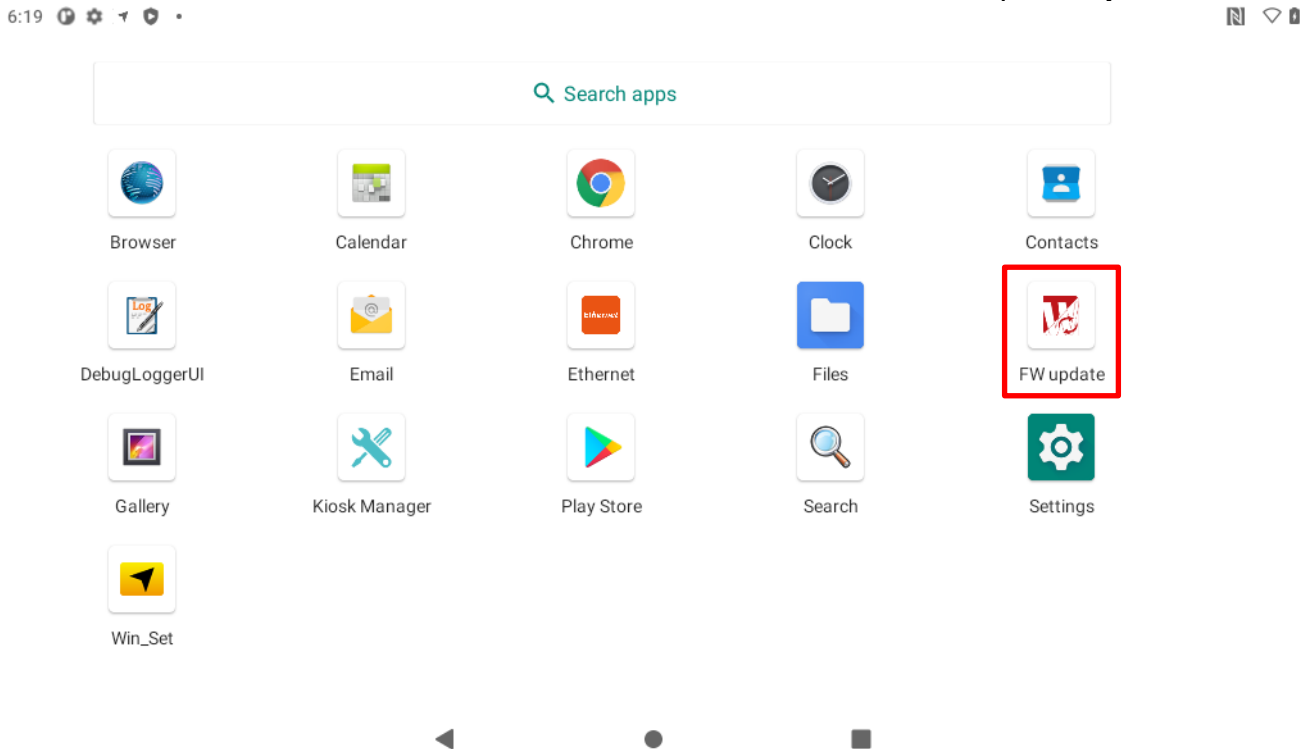
Note:

1. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
2. All specifications are subject to change without prior notice.

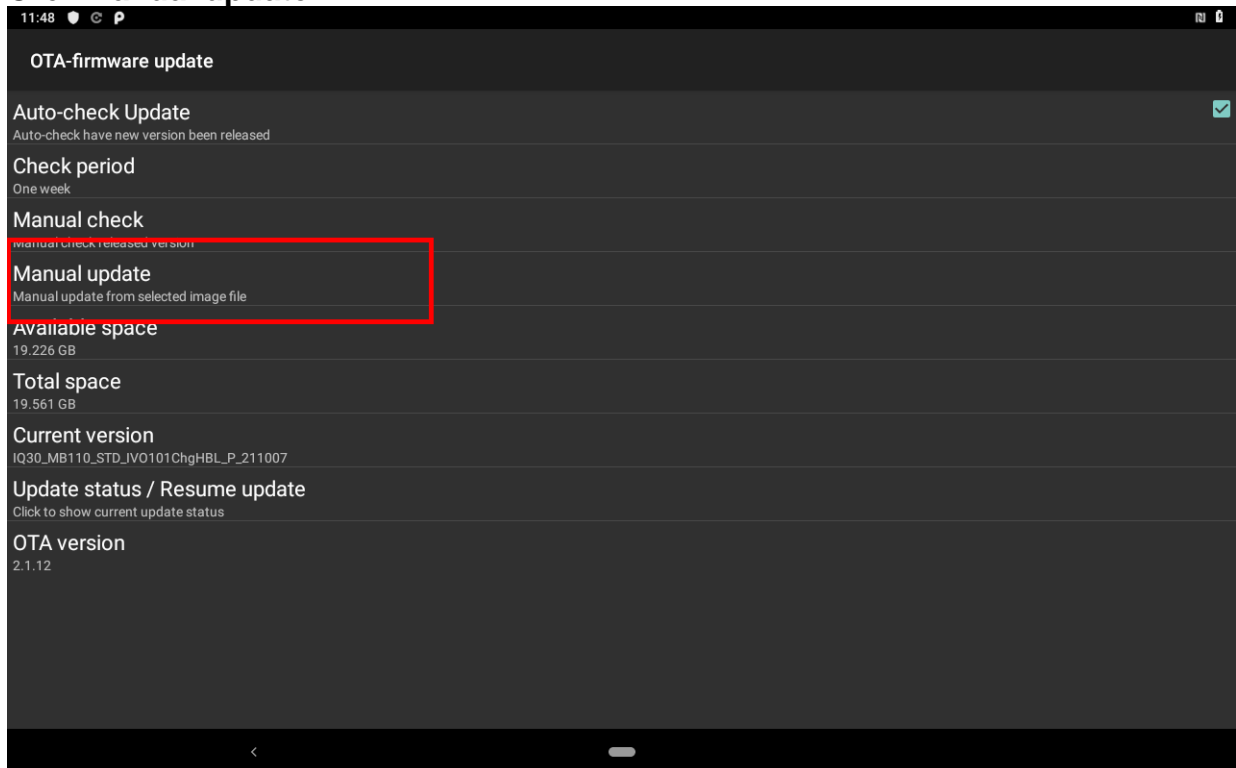
Appendix B: OTA Update Guide

OTA is a tool which can help you to update OS image. To receive Android OS image file, contact our sales representatives. Once you get the image file follow the guideline below.

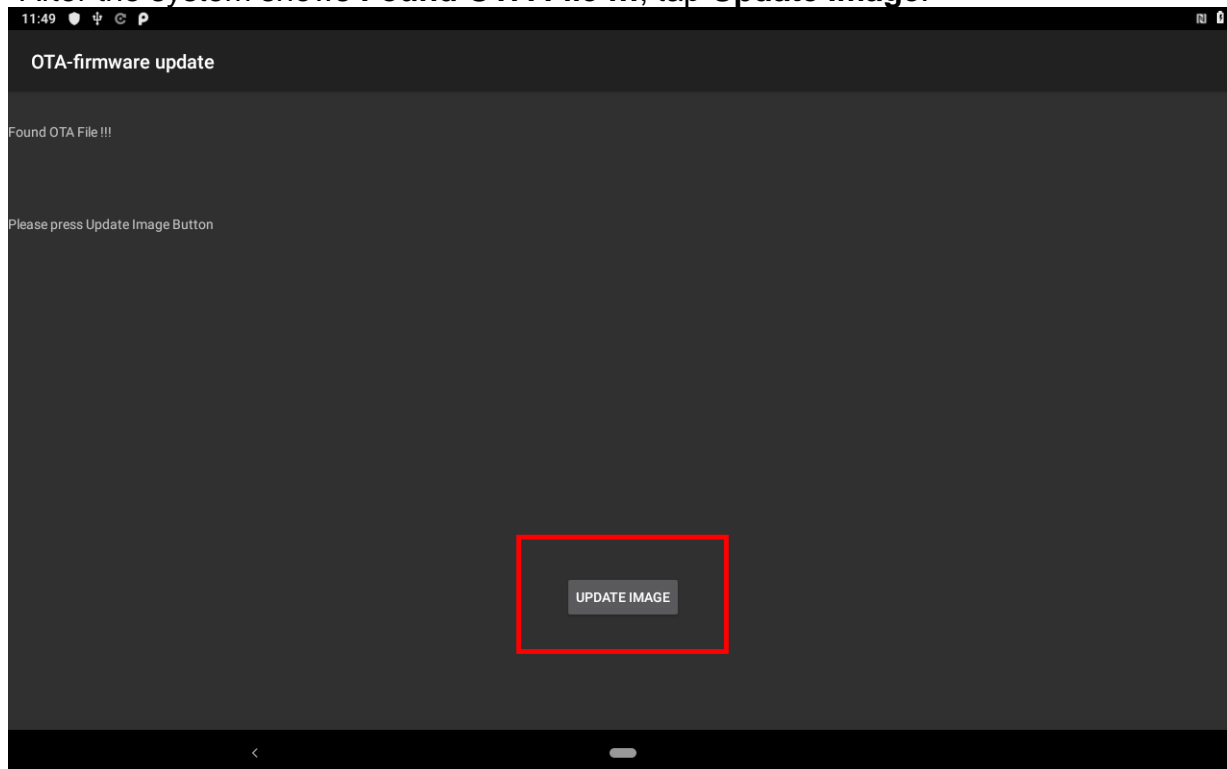
1. Copy image files **ota_IM30_X_X_X_X.zip** and **IM30_X_X_X_X.md5** to microSD card.
2. Insert micro SD card to the slot in the device. In the **APPS** menu tap **FW update**.



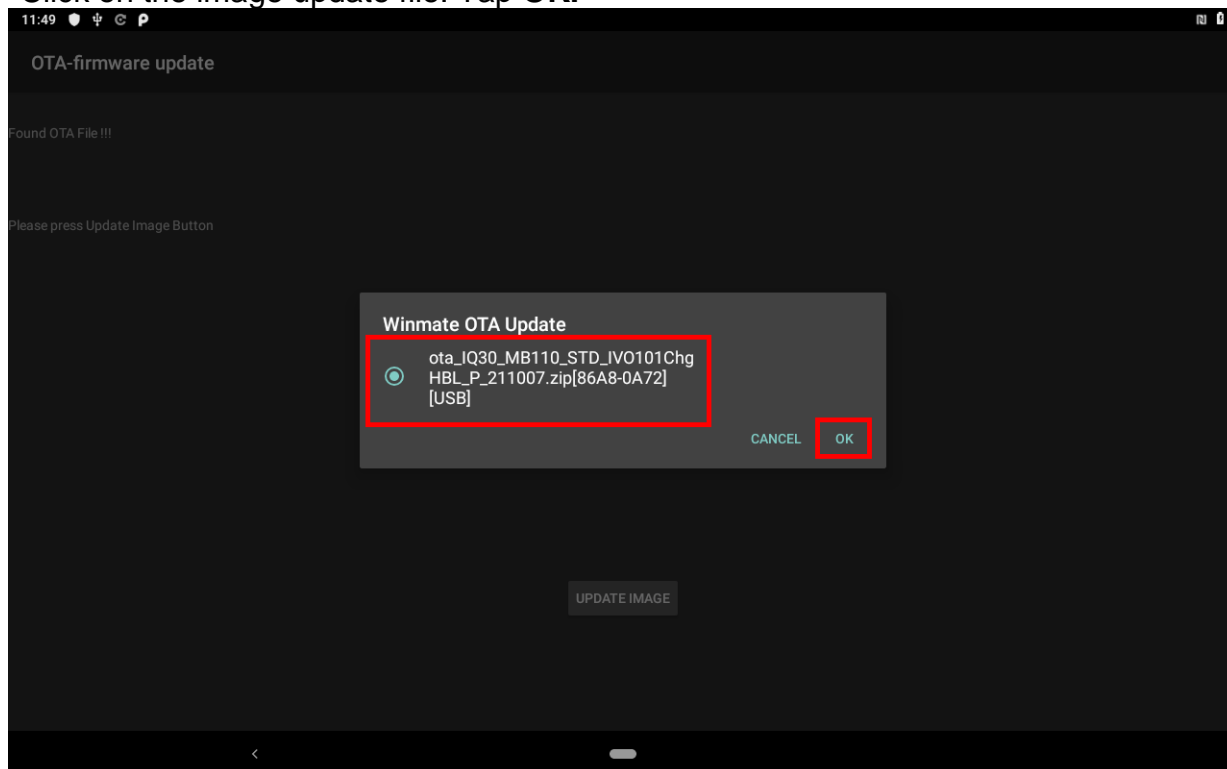
3. Click **Manual update**.



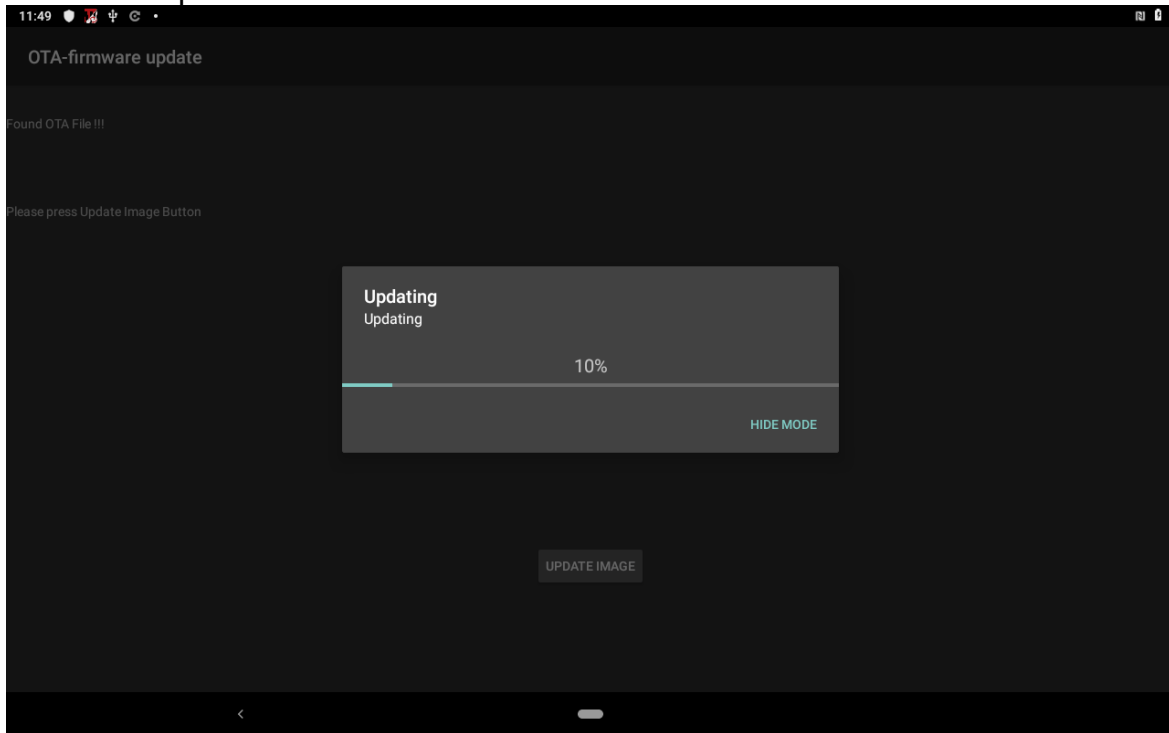
4. After the system shows **Found OTA File !!!**, tap **Update Image**.



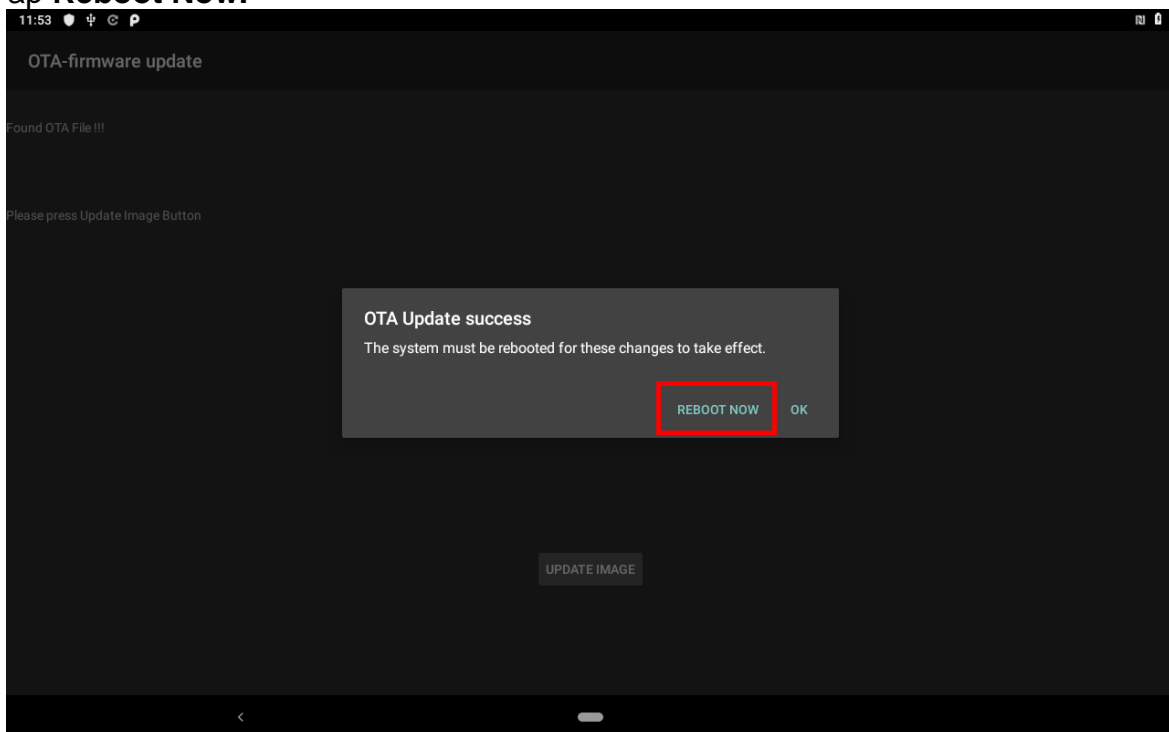
5. Click on the image update file. Tap **OK**.



6. Wait for the update.



7. Tap **Reboot Now**.



Important:

Do not disconnect the power source!

Appendix C: OS Image Update Guide

To receive OS image update guide please contact Winmate at <https://www.winmate.com/>



Contact Us



Winmate Inc.

No.18, Zhongxing South Rd.,
San-Chung District, New Taipei City 241017, Taiwan
Tel: +886-2-8511-0288
E-mail: sales@winmate.com.tw
Website: www.winmate.com



Winmate USA Inc.

2640 Matthews Street,
Smyrna, GA 30080, USA
Tel: +1-678-653-8800
E-mail: NASales@winmate.com.tw
Website: www.winmate-rugged.com



TTX Canada

150 Werlich Drive, Units 5&6
Cambridge, Ontario, N1T 1N6 Canada
Tel: +1-519-621-1881
E-mail: Sales@ttx.ca
Website: www.ttx.ca



TL Electronic GmbH

Bgm.-Gradl-Str. 1
85232 Bergkirchen-Feldgeding, Germany
Tel: +49 (0)8131 33204-0
E-mail: info@tl-electronic.de
Website: www.tl-electronic.de



京融电自动化科技（苏州）有限公司
215100 江苏省苏州市工业园区唯新路 69 号
一能科技园 3 号楼 206 室
Tel: +86-512-6826-6696/6829-6696
E-mail: sales@winmate.com.cn
Website: www.winmate.com.cn



Winmate JP Office/ HPC System Inc.

LOOP-X 8F,3-9-15 Kaigan,
Minato-ku, Tokyo 108-0022, Japan
Tel: +81-3-5446-5535
Fax: +81-3-5446-5550
Website: www.hpc.co.jp
