

CipherLab Reference Manual

RS36 Mobile Computer
Android™ 12

Version 1.01



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CIPHERLAB CO., LTD.

Website: <http://www.CipherLab.com>

IMPORTANT NOTICES

FOR USA

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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- ▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Find the certificate information from:

Settings → Legal information → Electronic authentication



Tested to Comply with FCC Standards

FOR HOME OR OFFICE USE

FOR PRODUCT WITH LASER

- ▶ This laser component emits FDA / IEC Class 2 laser light at the exit port. Do NOT STARE INTO BEAM DIRECTLY.
- ▶ Do not aim the beam at the eyes.
- ▶ Any adjustments or performance excluding those specified herein may result in hazardous laser light exposure.



ENVIRONMENT

- ▶ Operate the mobile computer at ambient temperatures from -20°C to 50°C and with humidity range from 10% to 90%.
- ▶ Store the device at ambient temperatures from -30°C to 70°C and with humidity range from 5% to 95%.
- ▶ Charge the device at ambient temperatures from 0°C to 40°C.
- ▶ This device is built with a dust-proof and splash-proof structure that conforms to protection class IP65/ IP68.

SPECIFIC ABSORPTION RATE (SAR) INFORMATION

▶ USA

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/eot/ea/fccid after searching on FCC ID: Q3N-RS36

▶ Canada

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada (ISED) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the ISED Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

La puissance de sortie rayonnée du dispositif sans fil est inférieure aux limites d'exposition aux radiofréquences d'Innovation, Sciences et Développement économique Canada (ISED). Le dispositif sans fil doit être utilisé de manière à minimiser le potentiel de contact humain pendant le fonctionnement normal.

Cet appareil a été évalué et montré conforme aux limites de DAS (Débit d'Absorption Spécifique) de l'ISED lorsqu'il est utilisé dans des conditions d'exposition portables.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

► Europe

A minimum separation distance of 0.5 cm must be maintained between the user's body and the device, including the antenna during body-worn operation to comply with the RF exposure requirements in Europe.

To compliance with RF Exposure requirements in Europe, third-party belt-clips, holsters or similar accessories used by this device should not contain any metallic components. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.

CE SAR Value (Standard limit is 2 W/Kg)

EU (10g): Max. 1.440 W/Kg

► DoC

Hereby, CIPHERLAB CO, declares that this RS36 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

URL: www.cipherlab.com

Indoor restriction: In EU, 5150 to 5350MHz is restricted indoor.

► **Power Adapter Information**

INPUT: 100-240V~50/60Hz 0.35A

OUTPUT/: 5.0V 2.0A 10.0W



IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS FOR LI-ION/POLYMER BATTERY

Lithium batteries are prone to capacity loss and swelling when exposed to high temperatures, excessive discharge, or overcharging. While CipherLab pre-charges batteries before shipment to prevent excessive discharge, it's crucial for customers to follow the guidelines below for battery usage and storage:

- 1. If the batteries will not be used for long periods, store them in an environment at room temperature and charge them to 60% to 70% of capacity every 3 to 4 months.**
 - 2. Please avoid leaving the battery installed in the device for long periods, even when the device is powered off. Standby power consumption may occur, leading to potential excessive discharge of the battery.**
 - 3. Avoid prolonged charging of the batteries. It is recommended to unplug the charging cable within 48 hours after the battery is fully charged to avoid damaging the battery's lifespan.**
- ▶ Lithium Polymer and Li-ion batteries are volatile. Failure to read and follow the below instructions may result personal injury and damage to device if charged or used improperly.
 - ▶ Lithium Polymer/Li-ion batteries have limited life cycle for charging and discharging. When life cycle has been reached, battery may swell.
 - ▶ Must keep Lithium Polymer and Li-ion battery away from children.
 - ▶ Never make wrong polarity connection when charging and discharging battery. Always double check polarity of battery's connector.
 - ▶ If battery has not been using or staying in device for 2 months, please do battery complete discharging and charging once before use. Always detach battery from device if you will not use device for long period of time.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

- ▶ Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- ▶ Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- ▶ A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

GENERAL GUIDELINE AND WARNING

- ▶ Use specific Lithium Polymer/Li-ion charger from CipherLab only. Failure to do so may cause fire, which may result in personal injury and property damage.
- ▶ Never charge batteries unattended. When charging Lithium Polymer/Li-ion batteries, you should always remain in constant observation to monitor the charging process and react to potential problems that may occur.
- ▶ Some Polymer/Li-ion chargers on the market may have technical deficiencies that may cause it to charge the LiPo/Li-ion batteries incorrectly or at an improper rate. Assure the charger you purchased works properly and always monitor charging process to ensure batteries are being charged properly. Failure to do so may result in fire.
- ▶ If at any time you witness a battery starting to balloon, swell up, smoke or hot; stop using this battery at once and contact your dealer immediately.
- ▶ If you accidentally short the battery polarity, the battery must be placed in a safe area for observation for approximately 15 minutes. Additionally, if a short occurs and contact is made with metal (such as rings on your hand), severe injuries may occur due to the conductivity of electric current.
- ▶ In the event of a crash due to bad shipment or other reasons, you must remove damaged battery for observation and place the damaged batteries from other good batteries.
- ▶ Never drop the batteries.
- ▶ Do NOT expose battery to water.
- ▶ Do NOT attempt to dis-assemble battery.
- ▶ Recommended to put the battery in an enclosure to protect it from damages by liquid or dropping from height accidentally.

CHARGING PROCESS

- ▶ Please ensure to charge battery indoor such as a well-ventilated room between 20°C to 30°C.
- ▶ Do NOT charge battery under direct sunlight.
- ▶ When selecting the cell count or voltage for charging purposes, select the cell count and voltage as it appears on the battery label. As a safety precaution, please confirm the information printed on the battery is correct.
- ▶ Lithium Polymer/Li-ion batteries has limited life cycle for charging and discharging. When life cycle has been reached, battery may swell.
- ▶ The allowed charging temperature is from 0°C to 40°C.
- ▶ During discharge and handling of batteries, do not exceed 50°C.

STORAGE & TRANSPORTATION

- ▶ CipherLab battery is charged in manufacturing to around 30% of its full capacity. It is a good capacity for long-term storage & transportation.
- ▶ Battery should NOT be stored in full-charged or full-discharge state; otherwise it will damage battery permanently.
- ▶ Battery subjects to discharge even when not installed in a device. For any stored & un-used battery, it is highly recommended for every 3 months to charge battery to 40%~60% of its original capacity to prolonged storage.
- ▶ Always detach battery from device if you will not use device for long period of time.
- ▶ Store battery indoor temperature between 0°C to 30°C for the best performance.
- ▶ Do NOT store battery in temperature exceeding 50°C, and never expose battery pack to high external pressure for extended periods, which can lead to an internal short circuit and overheating.
- ▶ When transporting or temporarily storing in a vehicle, temperature range should be greater than 0°C but no more than 45°C.
- ▶ Storing battery at temperatures greater than 50°C for extended periods of time (more than 2 hours) may cause damage to battery.

TO USE, HANDLE, AND DISPOSE BATTERY

- ▶ For Li-ion / Li-polymer battery, it is normal to balloon, expand, or swell after one year or 500 cycles (full charge-discharge cycles). Although we guarantee it will NOT cause any damage, it can't be used again and must be disposed at once, therefore we strongly recommend to replace battery every year or after 500 cycles, depend on which comes first.
- ▶ If a battery performance decreases more than 20%, it means the battery is at the end of its life cycle. Please stop using this battery, dispose properly according to the location's safe battery disposal procedures, and replace with a new / healthy one.
- ▶ The actual number of charge cycle will vary depending on usage conditions, patterns, ambient temperature, and other variables.
- ▶ Deep discharge below 3V can deteriorate battery performance.
- ▶ Use caution to avoid puncture of the battery. Puncture of battery may damage battery cell.
- ▶ Periodically and properly dispose used battery according to local regulations.

PRODUCT WARRANTY

Product warranty is limited to original manufacturing defects in material only. Warranty will not apply to batteries with reduced capacity due to user scenario, unless determined to be a manufacturing flaw.

Warranty does not cover collateral damage. Due Misuse, abuse, incorrect charging and other inappropriate use of this product are not covered under warranty.

SAFETY PRECAUTIONS



Warning statement:

A pleine puissance, l'écoute prolongée du baladeur peut endommager l'oreille de l'utilisateur.

To prevent possible hearing damage, do not listen at high volume levels for long periods.

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

For people's safety

- ▶ Do not listen at high volume levels for long periods to prevent possible hearing damage.
- ▶ Do not operate this device while walking, cycling or car driving.

For the equipment

- ▶ Do not use any batteries or charging devices which are not originally sold or manufactured by CIPHERLAB CO., LTD.
- ▶ Do not replace the battery with an incorrect type, to avoid the risk of heat generation, fire, or explosion.
- ▶ Do not disassemble, incinerate or short circuit the battery.
- ▶ Do not touch the contact pins of the battery pack.
- ▶ Do not expose the mobile computer or battery to any flammable sources.
- ▶ Do not expose the mobile computer to extreme temperatures or soak it in water.
- ▶ Do not use any pointed or sharp objects against the screen surface.
- ▶ Do not use the styluses which are not supplied or approved by CIPHERLAB CO., LTD., to prevent possible scratches to the touch screen.
- ▶ Water residue on the touch screen may cause abnormal behaviors or the fall of its sensitivity levels.
- ▶ On the surface of the terminal and the barcode reading window, the fog or water drops caused by low temperatures may influence barcode reading.
- ▶ Do not use bleaches or cleaners to clean the device. Use a clean, wet cloth instead.

BATTERY

- ▶ The main battery may not be charged to full for shipment. Charge the main battery to full before using the mobile computer for the first time.
- ▶ **Main battery:** The main battery powers the mobile computer to work. It takes approximately 3 hours to charge an empty main battery to full. For the first time charging the main battery, please charge it for at least 8 to 12 hours. The charging LED above the screen will light up in red while charging and will turn green when charging is complete.
- ▶ **Extended battery:** The optional main battery powers the mobile computer to work. It takes approximately 6 hours to charge an empty main battery to full. For the first time charging the main battery, please charge it for at least 8 to 12 hours. The charging LED above the screen will light up in red while charging and will turn green when charging is complete.
- ▶ **Backup battery:** The backup battery is mounted on the main board. Its role is to temporarily keep the mobile computer in suspension when the main battery is drained out so data in DRAM will be retained. The backup battery can be charged by the main battery or the power adapter, and takes approximately 4 hours to charge to full under the condition that it is always be charged except of power off.
- ▶ **RTC battery:** RTC battery is a 3V, 3mAh rechargeable SMT type Li-battery which takes about 12 hours to be fully charged. RTC retention will be maintained for at least 72 hours when the main battery is removed.
- ▶ The allowed battery charging ambient temperature is between 0°C to 40°C. It is recommended to charge the battery at room temperature (18°C to 25°C) for optimal performance.
- ▶ Please note that battery charging stops when ambient temperature drops below 0°C or exceeds 40°C.
- ▶ In order to prevent system from shutting down after the battery is drained out, keep a fresh battery for replacement at all times, or connect the mobile computer to an external power.
- ▶ If there are drippings or dust on the device or battery pack, wipe them away with a soft clean cloth before battery replacement.
- ▶ Turn off the power before main battery replacement (except of battery hot swap at the available temperature rang 0°C to 50°C).
- ▶ If you want to put away the mobile computer for a period of time, remove the battery pack from the mobile computer's battery compartment. Store the mobile computer and battery pack separately.
- ▶ Recycle batteries in a proper way for the green-environment issue.

SCANNER

▶ Scan a 1D barcode

- 1) Open **ReaderConfig** and tap **Scan Test** on the menu bar.
- 2) Aim the scanning window at the barcode to read. Move the device, having the barcode located in the center of the scanning area.
- 3) Press any of the two side triggers. The scanning light beams to read the printed barcodes. The buzzer beeps after scanning. The scanning light goes off once the data is decoded, or when the decode timeout period has passed.

▶ Scan a 2D barcode

- 1) Open **ReaderConfig** and tap **Scan Test** on the menu bar.
- 2) Aim the scanning window at the barcode to read. Move the device, having the barcode located in the center of the scanning area.
- 3) Press any of the two side triggers. The scanning light beams to read the printed barcodes. The buzzer beeps after scanning. The scanning light goes off once the data is decoded, or when the decode timeout period has passed.

CONNECTION

Via Bluetooth or WLAN

- ▶ Connection may fail when the mobile computer is around other wireless machines or power cables as the radio frequencies of those may cause interferences.
- ▶ If communication fails, move the devices much closer to each other, and try to communicate again
- ▶ After turning on, Bluetooth power is sustained even when the mobile computer is suspended. However, if the power mode is switched to Airplane Mode, Bluetooth power will be turned off regardless of the settings.

To a Charging & Communication Cradle

- ▶ Do not insert the mobile computer to a Charging & Communication Cradle if water or drippings are staying on the device.
- ▶ The LED indicator on a Charging & Communication Cradle shows the status of battery charging only; the status of terminal charging is shown on the device itself.
- ▶ Not Charging could be the result of battery damage, battery's failure to touch the connector or AC plug coming off.
- ▶ Charging error could be due to high battery temperature.

CARE & MAINTENANCE

- ▶ This mobile computer is intended for industrial use. The mobile computer is rated IP65 /IP68, however, damage may be done to the mobile computer if it is exposed to extreme temperatures or soaked in water.
- ▶ When the body of the mobile computer gets dirty, use a clean, wet cloth to wipe off dust and debris. DO NOT use bleaches or cleaners.
- ▶ Use a clean, non-abrasive, lint-free cloth to wipe dust off the LCD touch screen. DO NOT use any pointed or sharp objects against the surface. Always keep the LCD dry.
- ▶ If you want to put away the mobile computer for a period of time, download the collected data to a host computer, and then remove the battery pack from the mobile computer's battery compartment. Store the mobile computer and battery pack separately.
- ▶ If you encounter malfunction on the mobile computer, write down the specific scenario and consult your local sales representative.

THAILAND CAUTION

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.



เครื่องวิทยุคมนาคมนี้มีอัตราการดูดกลืนพลังงานจำเพาะ (Specific Absorption Rate - SAR) อันเนื่องมาจาก
เครื่องวิทยุคมนาคมเท่ากับ 0.882 W/kg

ซึ่งสอดคล้องตามมาตรฐานความปลอดภัยต่อสุขภาพของมนุษย์จากการใช้เครื่อง
วิทยุคมนาคมที่คณะกรรมการกิจการโทรคมนาคมแห่งชาติประกาศกำหนด

RELEASE NOTES

Version	Date	Notes
1.01	April 24 th , 2024	· Added important notices for lithium polymer batteries.
1.00	May 11 th , 2023	· Initial release

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INTRODUCTION

The **RS36** mobile computer, powered by Android 12, is light-weight, easy to use, providing powerful and handy tools for the purpose of delivering flexibility in customization.

Specifically designed to work as an industrial PDA, it provides rich options of data collection, voice and data communication, long-lasting working hours, and so on. Its large color transmissive display guarantees ease in reading in all lighting conditions. Integrated with Bluetooth® Class II, v5.1 dual mode, v2.1 with EDR (Enhanced Data Rate), IEEE 802.11 a/b/g/n/ac/d/h/I/r/k/v/w/mc/ax (802.11ax only on WIFI 6 model) networking technologies, the mobile computer also includes a GSM/UMTS/WCDMA/HSPA/HSPA+/LTE/VOLTE module to gain greater speeds and optimal mobility. In particular, an integrated GPRS/EGPRS receiver is made available for use with third-party location-based applications.

This manual serves to guide you through how to install, configure, and operate the mobile computer. The [Care & Maintenance](#) section is specifically crucial for those who are in charge of taking care of the mobile computer.

We recommend you to keep one copy of the manual at hand for quick reference or maintenance purposes. To avoid any improper disposal or operation, please read the manual thoroughly before use.

FEATURES

- ▶ Built tough to survive drop test and sealed against moisture/dust to industrial standard IP65/ IP68.
- ▶ Android 12 operating system with a powerful Qualcomm QCM4290 Octa-core up to 2.0GHz CPU
- ▶ 64GB Flash memory to store OS and software programs
- ▶ 4GB LPDDR4X RAM to store and run programs, as well as store program data
- ▶ One expansion slot for microSDHC card up to 32GB and microSDXC card up to 64GB-2TB.
- ▶ Built-in autofocus 16 megapixels rear camera with LED flash.
- ▶ Left and right side triggers for ambidextrous scanning
- ▶ Total wireless solution — connectivity includes Bluetooth® Class II, v5.1 dual mode, v2.1 with EDR (Enhanced Data Rate), IEEE 802.11 a/b/g/n/ac/d/h/I/r/k/v/w/mc/ax (802.11ax only on WIFI 6 model) networking technologies, GPRS/EGPRS/GSM/UMTS/WCDMA/HSPA/HSPA+/LTE/VOLTE, and near field communication (NFC)
- ▶ A 5.5-inch, transmissive IPS LCD, Corning® Gorilla® Glass display with 720x1400 pixels to deliver excellent visibility in all lighting conditions
- ▶ Configurable feedback indicators including speaker and vibrator
- ▶ Built-in scan engine setting tool Reader Configuration which serves out-of-the-box keyboard wedge functionality

INSIDE THE PACKAGE

The following items are included in the kit package. Save the box and packaging material for future use in case you need to store or ship the mobile computer.

- ▶ RS36 Mobile Computer
- ▶ Snap-on Cable (optional)
- ▶ AC Power Adaptor (optional)
- ▶ Quick Start Guide

ACCESSORIES

- ▶ 1-slot Charging and Communication Cradle
- ▶ Pistol Grip
- ▶ Protective Rubber Boot
- ▶ Hand Strap
- ▶ UHF RFID Reader

- ▶ USB Snap-on Cable
- ▶ 4-slot Battery Charger
- ▶ Multi-slot Terminal Charging Cradle
- ▶ Screen Protector

RELATED DOCUMENTATION

Please visit [CipherLab website](#) to access the related documentation about the RS36 mobile computer.

Chapter 1

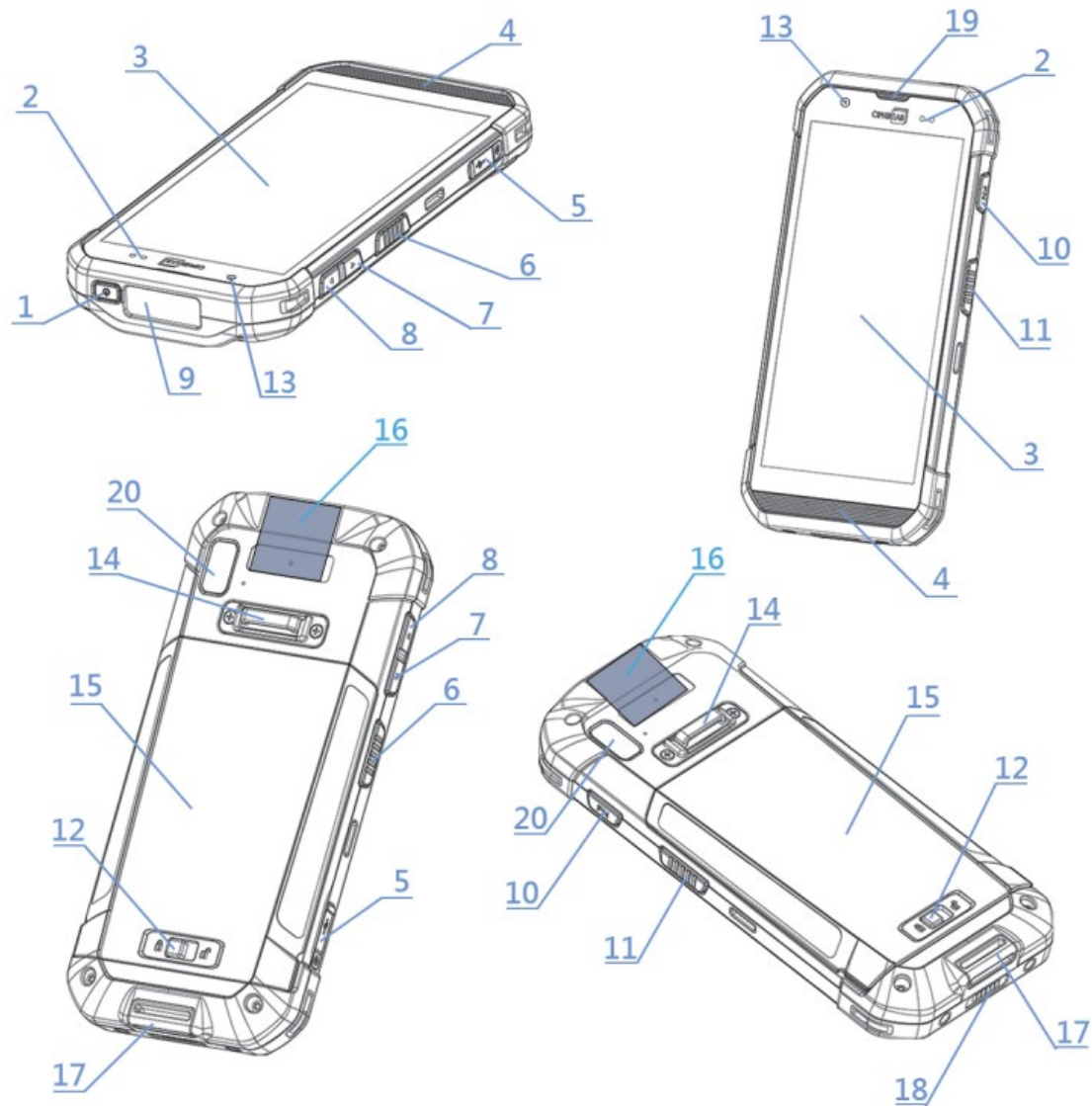
QUICK START

This chapter helps you get ready for starting using the mobile computer.

IN THIS CHAPTER

1.1. Overview	25
1.2. Charging & Communication	33

1.1. OVERVIEW



No.	Description	No.	Description	No.	Description
1.	Power Button	8.	Volume Up Button	15.	Battery with Battery Cover
2.	Status LED	9.	Scan Window	16.	NFC Detection Area
3.	Touchscreen	10.	Function Key	17.	Hand Strap Hole
4.	Microphone & Speaker	11.	Side-Trigger (Right)	18.	Charging & Communication Pins
5.	USB-C Port with Cover	12.	Battery Cover Latch	19.	Receiver
6.	Side-Trigger (Left)	13.	Front Camera	20.	Rear Camera
7.	Volume Down Button	14.	Hand Strap Cover		

1.1.1. INSTALL/ REMOVE BATTERY

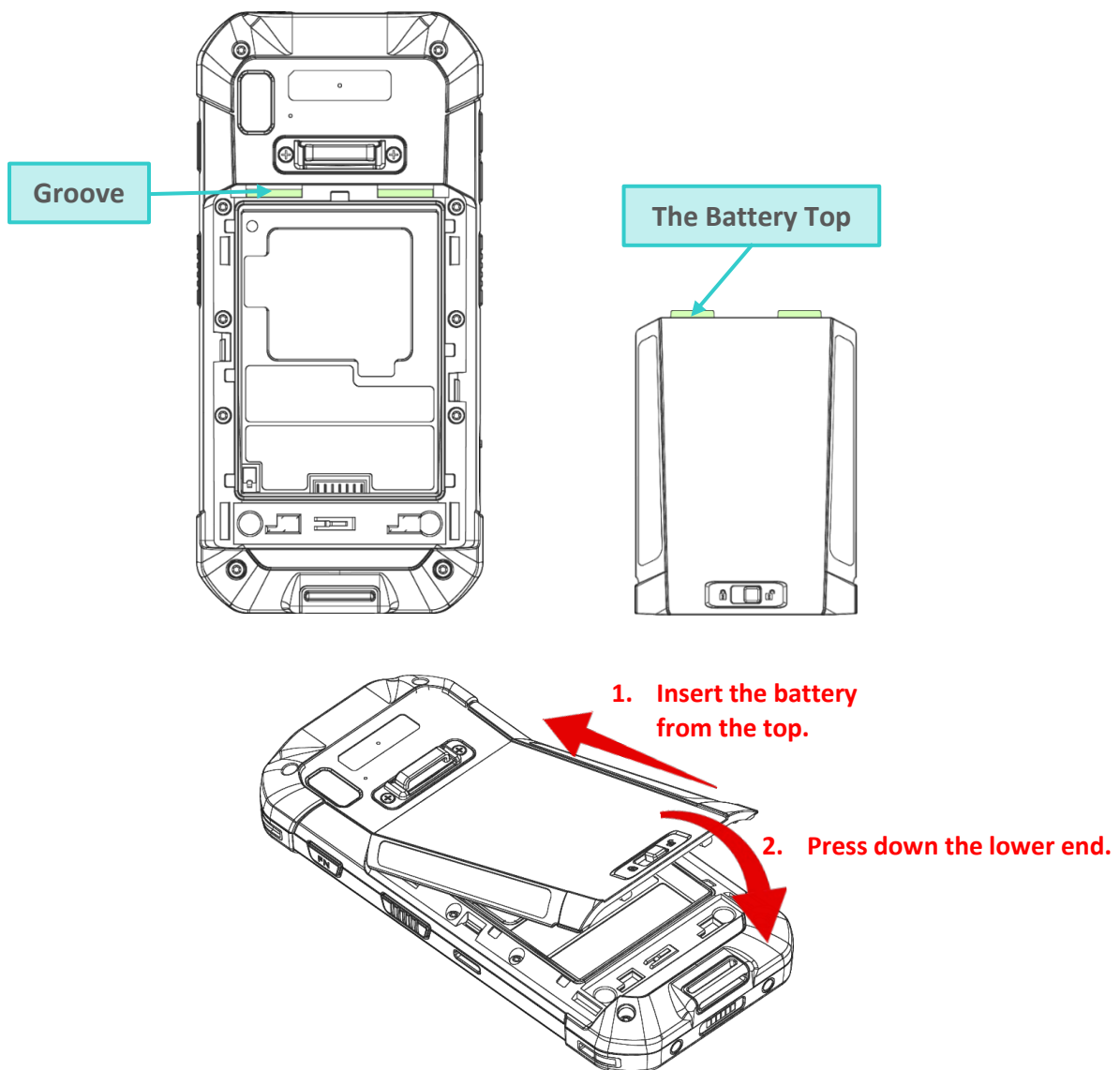
For shipping and storage purposes, the mobile computer and the main battery are saved in separate packages.

Note:

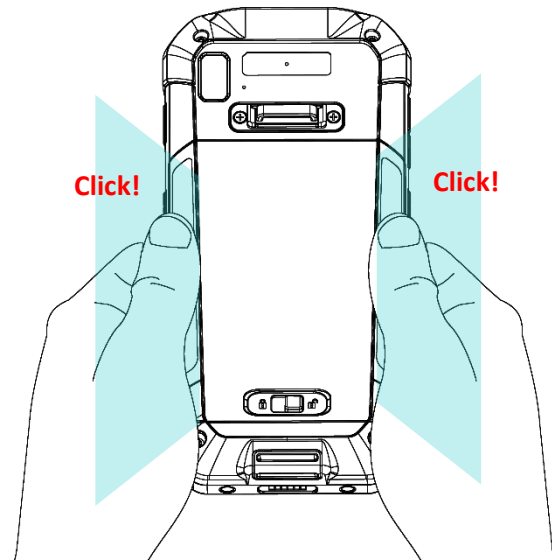
- (1) Any improper handling may reduce the battery life.
- (2) Always use a fully-charged main battery for battery replacement.

To install the main battery:

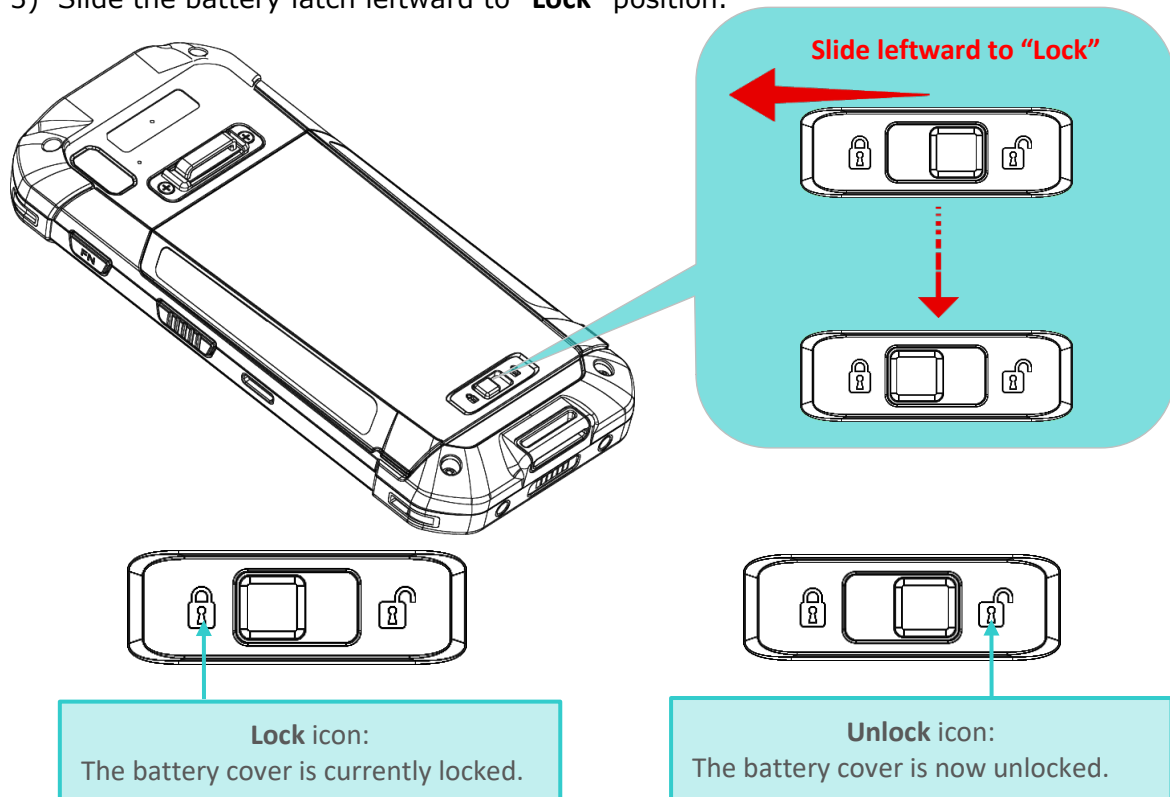
- 1) Insert a fully-charged main battery into the grooves from the battery top, and then press down the lower edge of the battery.



- 2) Press both left and right side edges of the battery to make sure that it is firmly installed without any interstice.



- 3) Slide the battery latch leftward to “Lock” position.



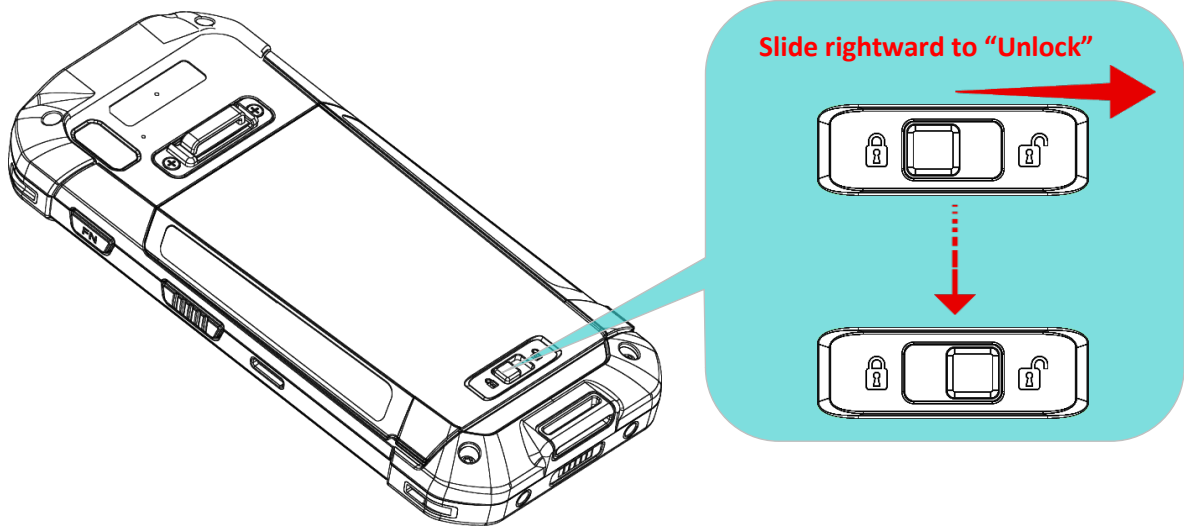
Warning:

- (1) Make sure the battery latch is at the “Lock” position before powering on the device.
- (2) For initial use, insert a charged battery, lock the battery cover in place, and then press the Power key to power on the mobile computer.

REMOVE BATTERY

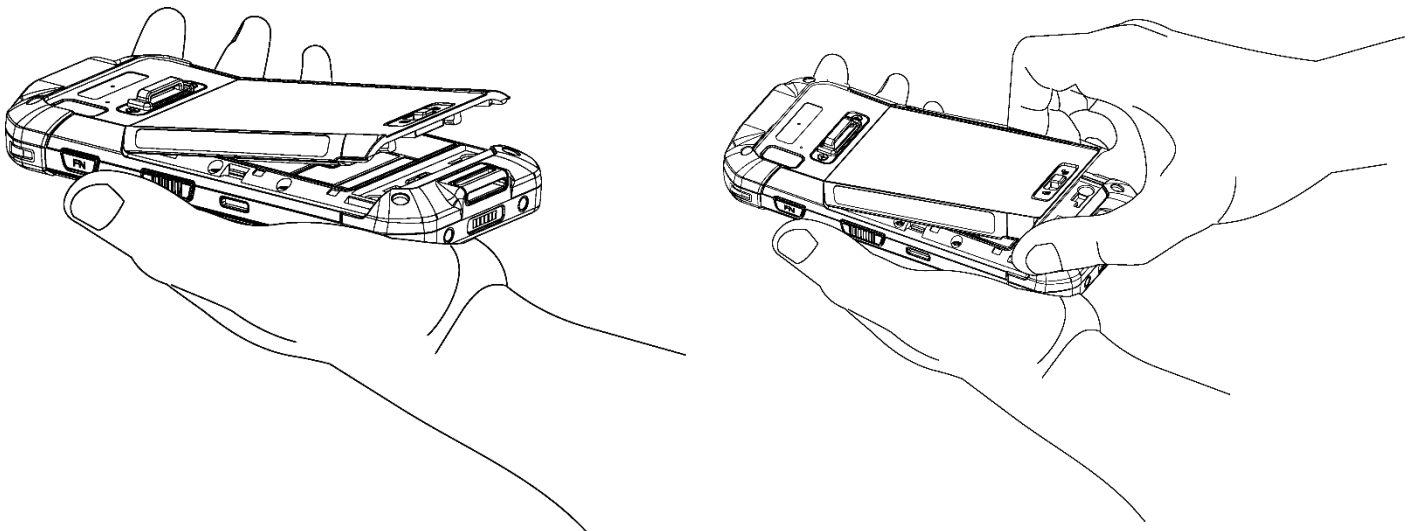
To remove the battery:

- 1) Slide the battery latch rightward to unlock it.



- 2) Once the battery cover is unlocked, it slightly tilts up and is ready to be removed.

By holding the two sides of the battery cover, lift up the main battery (which is with the battery cover) from its lower end to remove it.

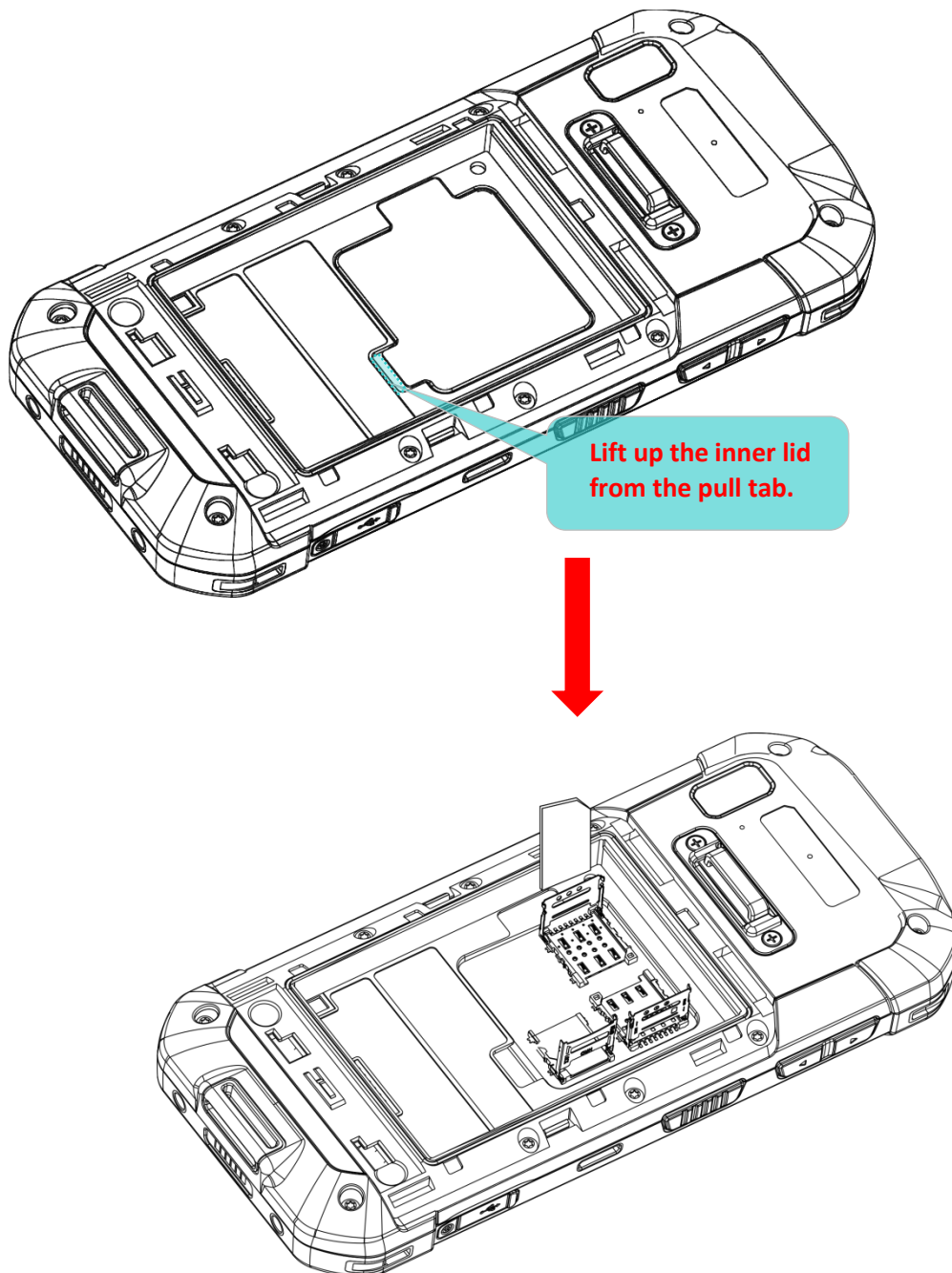


1.1.2. INSTALLING SIM CARD AND MEMORY CARD

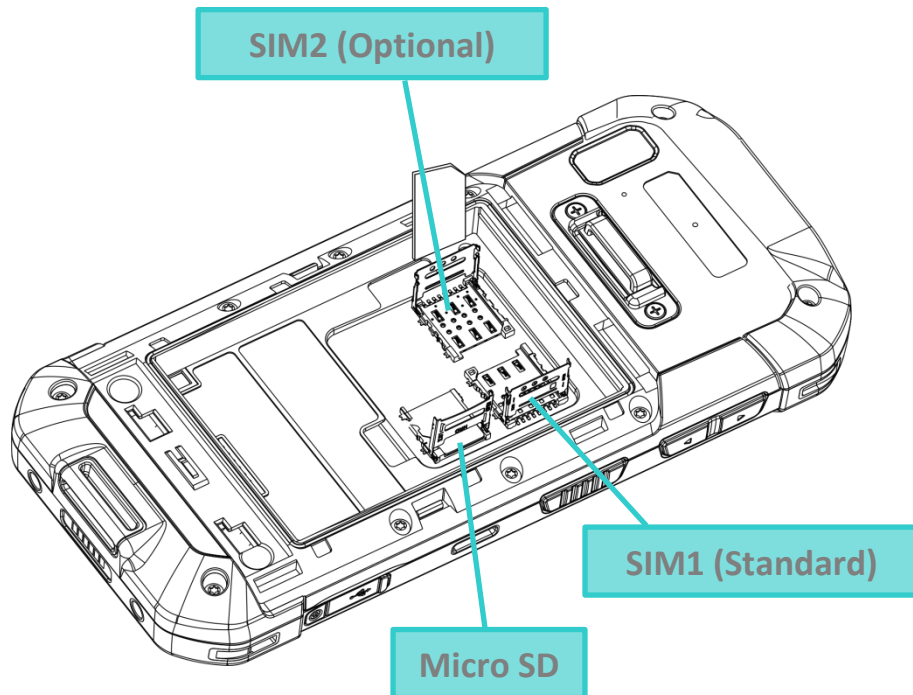
The RS36 mobile computer is equipped with 2 SIM card slots(standard x1 and optional x1) and 1 memory card slot.

To insert the cards:

- 1) Remove the battery as described in [Remove Battery](#).
- 2) Lift up the inner lid that protects the card sockets chamber by holding the pull tab.

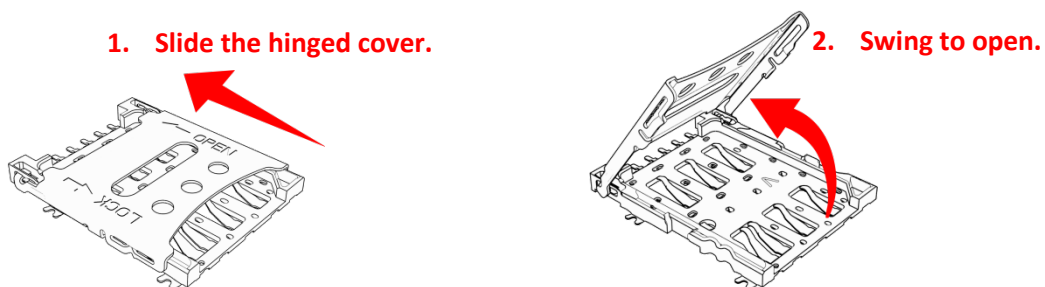


- 3) After the chamber is revealed, insert SIM card(s) and the micro SD card into their respective sockets. Close and push back the hinged cover till a click sounds.

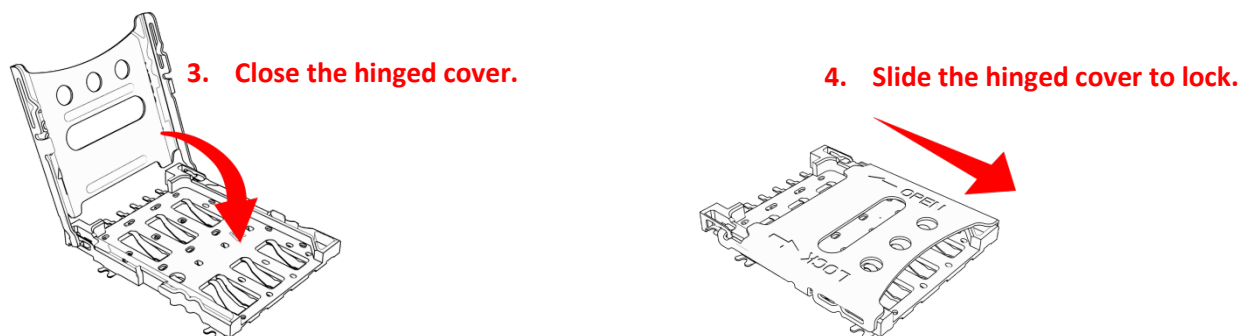


To Install the Cards:

- 1) Slide the hinged cover back.
- 2) Swing the top to open.



- 3) Insert the cards, close the hinged cover, and then push it back.



- 4) Place the inner lid back, install the battery cover, and push the battery latch back to the "Lock" position.

REMOVE CARDS

To remove the cards:


- 1) Remove the battery.
- 2) Lift up the inner lid.
- 3) Unlock the card hinge cover and remove the card.
- 4) Mount the inner lid and the battery cover, and slide the battery latch back to the **"Lock"** position

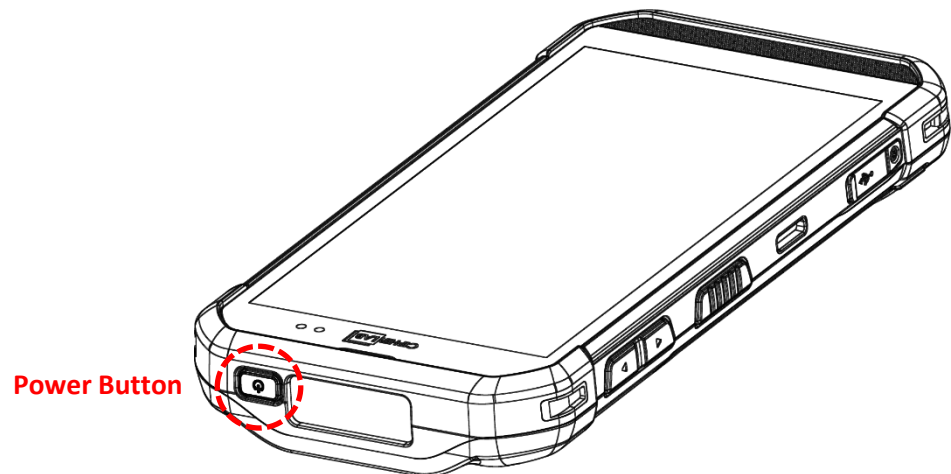
Note:

- (1) Both SIM1 and SIM2 cards support Nano SIM card only.
 - (2) Both SIM1 and SIM2 card slots support 2G/3G/4G cards. However, you can have 3G/4G data transmission on either SIM but not on both at the same time.
-

1.1.3. POWER ON/OFF MOBILE COMPUTER

POWER ON


To power on the mobile computer, press and hold the power button  located on the top end of the device. The mobile computer will turn on and show the **Home Screen** after splash screen.

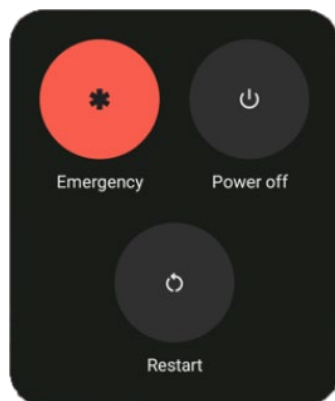


Note:

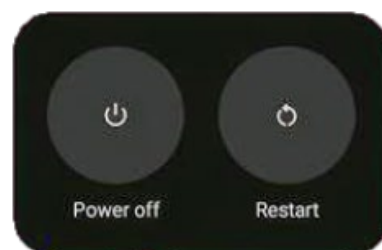
For the mobile computer to power on, the battery cover must be secured in place.

POWER OFF

To power off the mobile computer, press and hold the power button  for more than three seconds. A menu will appear on-screen which allows you to power off the device. Make sure all user data and tasks have been stored before tapping on **Power off**.



(LTE)



(WiFi Only)

1.2. CHARGING & COMMUNICATION

1.2.1. CHARGE MOBILE COMPUTER

The main battery may not be charged to full for shipment. When you first receive the kit package, you will need to charge the main battery to full before using the mobile computer. You may use the Snap-on Charging Cable or Charging & Communication Cradle along with a power adapter to charge the mobile computer.

Your device can also be charged by connecting to a host computer using a USB Type-C cable. It's slower than charging using the supplied snap-on cable or Charging & Communication Cradle.

CHARGING TIME

► **Main battery:**

The main battery powers the mobile computer to work. It takes approximately 3 hours to charge an empty main battery to full. For the first time charging the main battery, please charge it for at least 8 to 12 hours. The charging LED above the screen (located on the right) will light up in red while charging and will turn green when charging is complete.

► **Extended battery:**

The optional main battery powers the mobile computer to work. It takes approximately 6 hours to charge an empty main battery to full. For the first time charging the main battery, please charge it for at least 8 to 12 hours. The charging LED above the screen (located on the right) will light up in red color while charging, and it will turn into green color when charging is complete.

► **Backup battery:**

The backup battery is mounted on the main board. Its role is to temporarily keep the mobile computer in suspension when the main battery is drained out so data in DRAM will be retained. The backup battery can be charged by the main battery or the power adapter, and takes approximately 4 hours to charge to full under the condition that it is always be charged except of power off.

► **RTC Battery:**

RTC battery is a rechargeable SMT type Li-battery. RTC retention will be maintained for at least 72 hours when the main battery is removed.

CHARGING TEMPERATURE

The allowed battery charging ambient temperature is between 0°C to 40°C. It is recommended to charge the battery at room temperature (18°C to 25°C) for optimal performance.

Please note that battery charging stops when ambient temperature drops below 0°C or exceeds 40°C.

OPERATION ON BATTERY POWER

When Bluetooth® Class II, v5.1 dual mode, v2.1 with EDR (Enhanced Data Rate), IEEE 802.11 a/b/g/n/ac/d/h/I/r/k/v/w/mc/ax (802.11ax only on WIFI 6 model) networking technologies, GSM/UMTS/WCDMA/HSPA/HSPA+/LTE/VOLTE, and GPRS/EGPRS are all enabled on battery power, the main battery level will drop down substantially. Prolonged use of the display and continued scanning of barcodes will also affect battery level.

In order to prevent system from shutting down after the battery is drained out, we suggest that you keep a fresh battery for replacement at all times, or connect the mobile computer to an external power.

BATTERY STATUS & STATUS LED DURING CHARGE

When RS36 mobile computer is connected with the external power source, the Status LED located above the touch screen shows as below:

LED Status	Description
Red, solid	Charging the mobile computer
Red, blink	Charging error
Green, solid	Charging complete
No light	The cable is not correctly connected

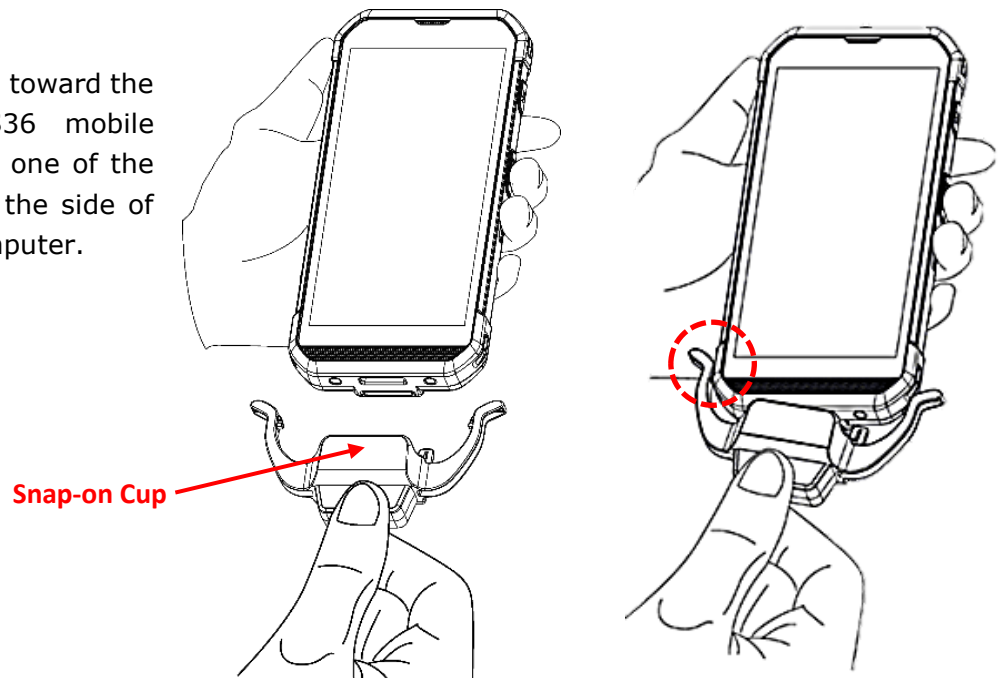
USE SNAP-ON CABLE

The Snap-on Cable provides a convenient way to charge your mobile computer as well as data communication.

To install:

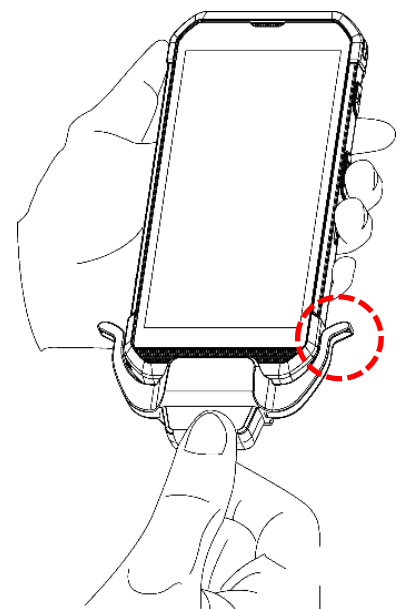
1) Remove the USB Type-C cable if it is connected with the RS36 mobile computer.

2) Hold the snap-on cup toward the bottom of the RS36 mobile computer, and place one of the snap-on cup side to the side of the RS36 mobile computer.

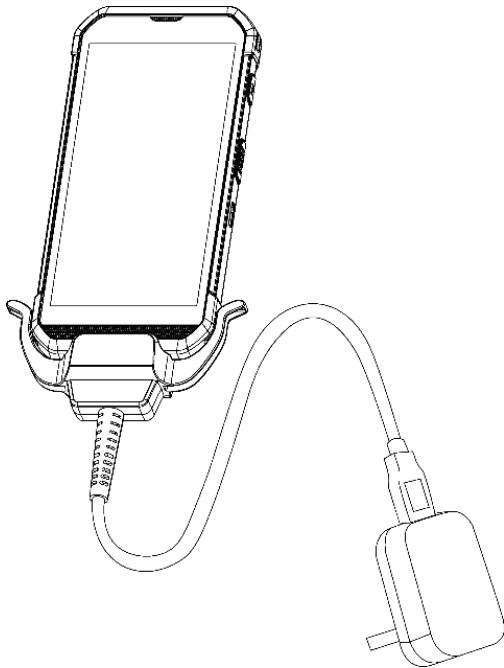


3) Push the Snap-on cup upwards to make its another side to be attached to the RS36 mobile computer.

4) A "click" sound is made once the Snap-on cable is connected with the bottom of the RS36 mobile computer in place.



- 5) Connect the USB plug to the approved adapter for external power connection, or plug it to the USB port of PC/laptop for data transmission/ charging.



While the device battery is being charged, the LED on mobile computer will indicate charging status.

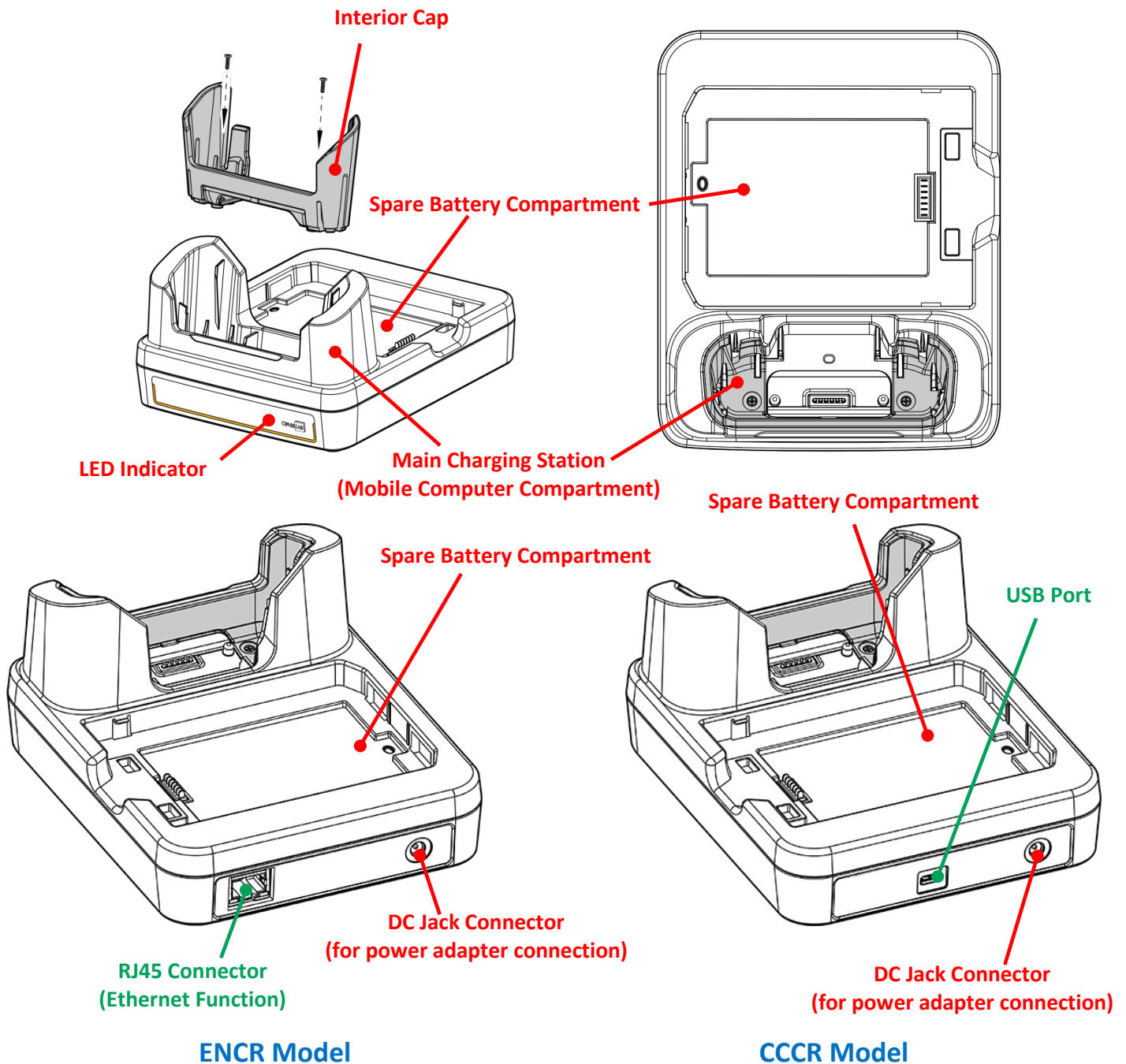
LED Indicator	Status	Description
Charging	Red, solid	Charging the mobile computer
	Red, blink	Charging error
	Green, solid	Charging complete
	No light	The cable is not correctly connected

Note:

- (1) The USB Type-C cable must be removed before installing the snap-on cable.
 - (2) For data communication, you could also use a USB Type-C cable to connect the mobile computer to your PC or laptop.
-

USE CHARGING & COMMUNICATION CRADLE

The Charging & Communication Cradle charges your mobile computer and a spare battery at the same time, and it could also be used for data communication.

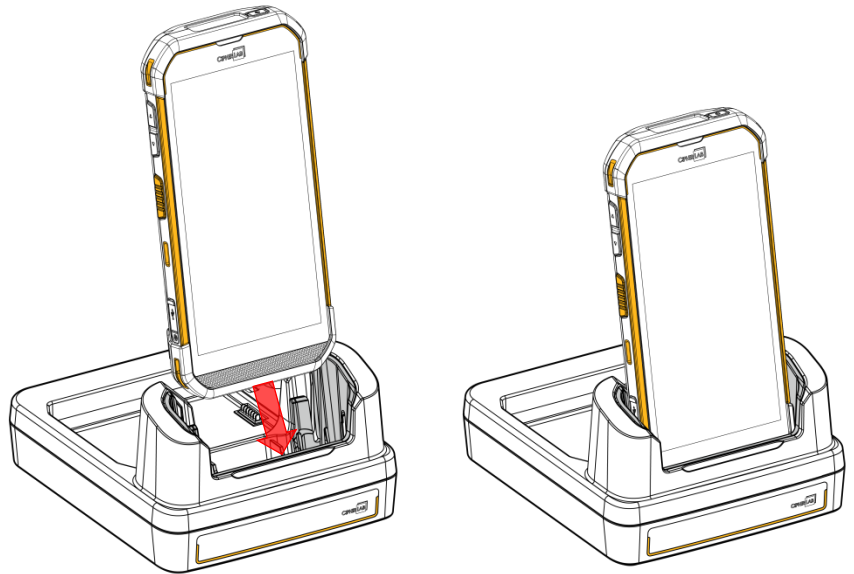


Note: Install the interior cap into the Charging & Communication Cradle allows the RS36 mobile computer to be put in smoothly without rubber boot.

To charge your mobile computer on the Charging & Communication Cradle:

- 1) Remove the USB Type-C cable if it is connected with the RS36 mobile computer.
- 2) Insert the RS36 mobile computer onto the Cradle. The installed hard shell or hand strap is not necessary to be removed in advance before inserting the mobile computer.

To remove, please directly take the device out.



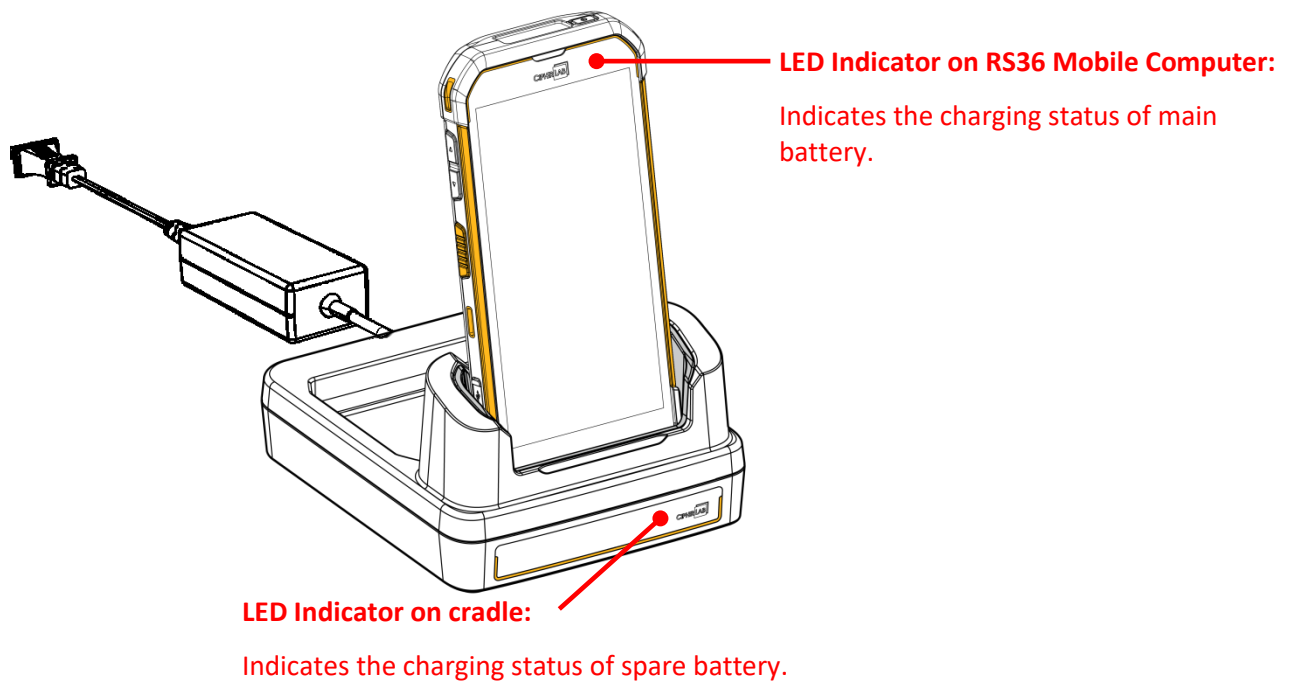
- 3) For the spare battery, please insert the battery from its top side into the spare battery compartment of the cradle, and then press down the bottom side of the battery (where the battery latch is located).

To remove, directly take the battery out.



4) Connect the adapter to the Cradle, and plug the other end into an electrical outlet.

The status of the mobile computer charging is shown on the device itself, while the LED indicator on RS36 Charging & Communication Cradle shows the status of battery charging as below:



Cradle LED Indicator	Status	Description
Charging	Red, solid	Charging the battery
	Red, blink	Charging error
	Red, flash once	No battery
	Green, solid	Charging complete
	No light	Not charging

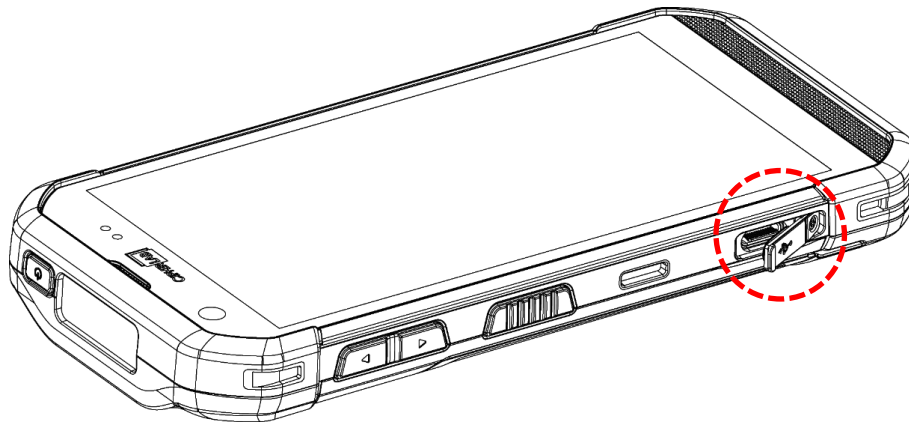
Note:

- (1) **Not Charging** could be the result of battery damage, battery's failure to touch the connector, or AC plug coming off.
- (2) Charging error could be due to high battery temperature.
- (3) The USB Type-C cable must be removed before inserting the device onto the cradle.

1.2.2. WIRED DATA TRANSMISSION

Use a USB Type-C cable or the snap-on Cable or the cradle to connect the mobile computer to your PC for data transmission.

- 1) Connect your device to the computer with a USB Type-C cable/ Snap-on Cable / Cradle.



- 2) Once connected, “**USB Preferences**” page shows up. By default, the device will be in charging mode with the status “**No data transfer**”, in which you are unable to access the files on this device from the PC client.

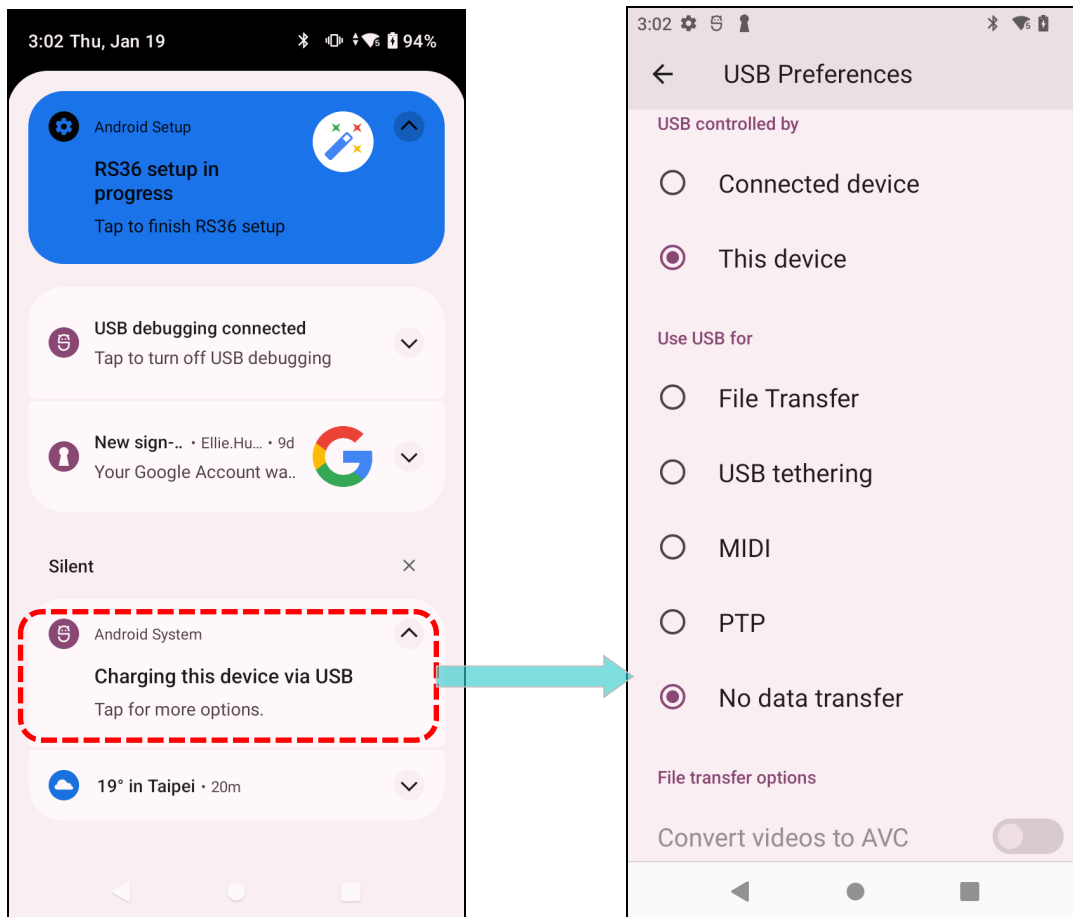
- ▶ To transfer all types of files between your device and PC, choose “**File Transfer**”.
- ▶ To transfer videos and photos, you can select “**PTP**”, in which your device will share only videos and photos in DCIM and Pictures folders.

Use USB for

- ☐ No data transfer
Just charge this device
- ☒ File Transfer
Transfer files to another device
- ☐ PTP
Transfer photos or files if MTP is not supported (PTP)
- ☐ MIDI
Use this device as MIDI

CANCEL

To change the USB usage after you leave “**USB Preferences**” page, please swipe down from the status bar to reveal [Notifications Drawer](#), and then tap on the system notification “**USB file transfer turned on**” or other USB usage notification just like this (depending on what you chose last time) to enter “**USB Preferences**” to select the option you’d like to use USB for.



1.2.3. USING WIRELESS NETWORKS

The mobile computer supports widely applied wireless technologies including Bluetooth® Class II, v5.1 dual mode, v2.1 with EDR (Enhanced Data Rate) is able to send/receive data in real time in an efficient way.

Select GSM/UMTS/WCDMA/HSPA/HSPA+/LTE/VOLTE modules embedded for a total wireless solution for data and voice communication.

Chapter 2

USING RS36 MOBILE COMPUTER

This chapter walks you through the fundamental usage and features of this device.

IN THIS CHAPTER

2.1. Battery	42
2.2. Memory	60
2.3. Touch Screen	76
2.4. Notifications	85
2.5. Date and Time	93
2.6. Language & Keyboard Input	97
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2.8. Data Capture	103

2.1. BATTERY

MAIN BATTERY

The mobile computer is powered by a rechargeable 3.85V, 4000mAh Li-Polymer battery pack, and it takes approximately 3 hours to charge it to full from the power adaptor (for the first time charging the main battery, please charge it for at least 8 to 12 hours). However, the charging time may vary by your working condition.

EXTENDED BATTERY

The mobile computer also can be optionally powered by a rechargeable 3.85V, 6000mAh Li-Polymer battery pack, and it takes approximately 6 hours to charge it to full from the power adaptor (for the first time charging the main battery, please charge it for at least 8 to 12 hours). However, the charging time may vary by your working condition.

SPARE BATTERY

A spare battery pack is provided as an accessory. We recommend keeping a fully charged spare battery at hand in order to replace the main battery when it is nearly drained out.

BACKUP BATTERY

Settled on the main board is a backup battery that keeps the mobile computer in suspension when the main battery is depleted. The backup battery is a rechargeable Li-Polymer battery, and can retain data in the DRAM for 10 minutes when it is fully charged (as long as wireless modules on the mobile computer are inactive).

It also keeps Wi-Fi and Bluetooth connections for about 30 seconds in suspend mode after the main battery is removed. The Wi-Fi and Bluetooth connections will resume right after the main battery is installed within the time period the connection is retained.

The backup battery can be charged by the main battery or the power adaptor, and takes approximately 4 hours to charge to full under the condition that it is always be charged except of power off.

RTC BATTERY

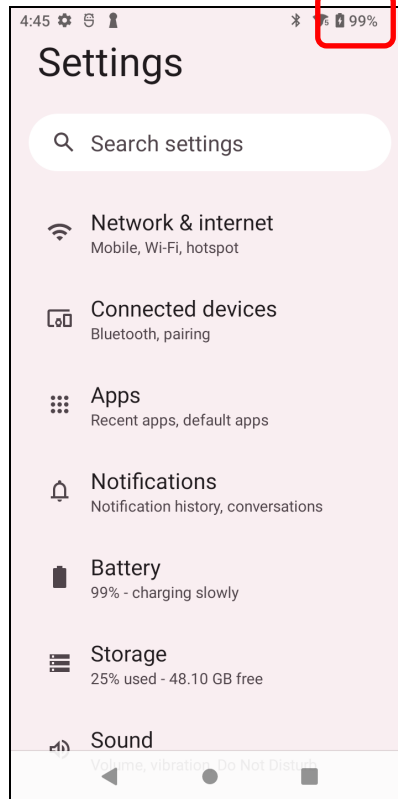
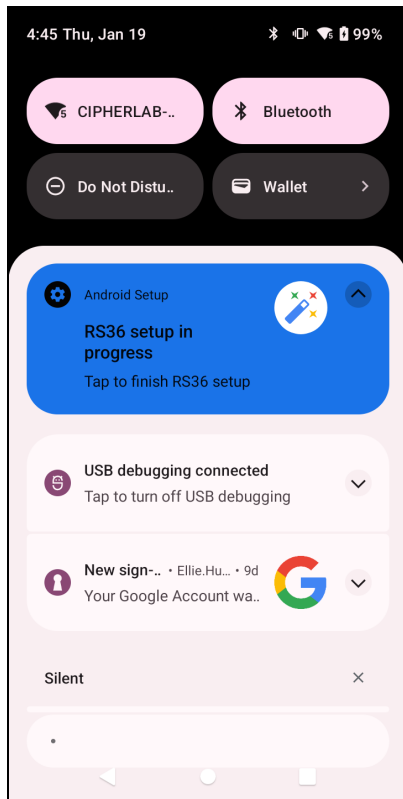
RTC battery is a 3V, 3mAh rechargeable SMT type Li-battery which takes about 12 hours to be fully charged. RTC retention will be maintained for at least 72 hours when the main battery is removed.

Warning:






- (1) The battery cover must be secured in position with its latch locked.
 - (2) For a new battery, make sure it is fully charged before using.
 - (3) To avoid data loss, when replacing the main battery, make sure you replace it with a well-charged spare battery pack. Always prepare a spare battery at hand, especially when you are on the road.
 - (4) When the mobile computer has been on backup battery for 10 minutes, the system will shut down. Be sure to replace the main battery as soon as possible in order to avoid data loss.
 - (5) To avoid system crash, system will NOT resume from the suspend mode if the power of the installed main battery is less than 10%.
-

2.1.1. BATTERY STATUS INDICATORS

The main battery pack is the only power source for the mobile computer to work. Therefore, when the main battery level goes low, you need to replace the battery pack with a charged one or charge it as soon as possible. Most of all, you should backup important data on a regular basis.

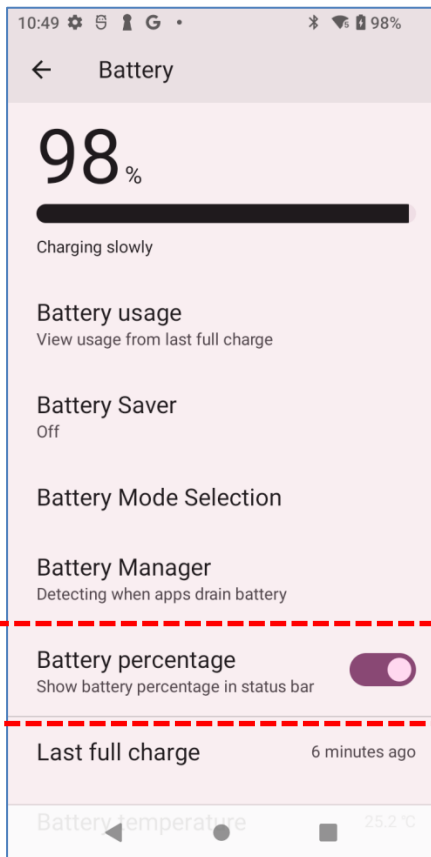


By checking the battery status icon on **Status Bar**, you can tell the battery level remaining in the main battery.



Battery Icon	Description
	Main battery is fully charged.
	Main battery level is partially drained.
	Main battery level is low (5%~15%).
	Main battery level is very low and needs charging immediately (<5%).
	External power source is connected and main battery is being charged.

The percentage beside the battery icon on the status bar can be switched on or off in [App](#)

[Drawer \(All Apps\)](#) | **Settings**  | **Battery**  | **Battery Percentage**



Note:

When the mobile computer is fully charged and battery level reaches 100%, the battery icon will change from  to  to indicate charging is completed.



Warning:

- (1) Once the battery level drops below 15%, the low battery notification will be displayed on the screen.
 - (2) Data loss with RAM may occur when battery level is low. Always save data before the battery runs out of power or keep a fresh battery for replacement.
 - (3) Constant usage of the mobile computer at low battery level can affect battery life. For maximum performance, recharge the battery periodically to avoid battery drain out and maintain good battery health.
-

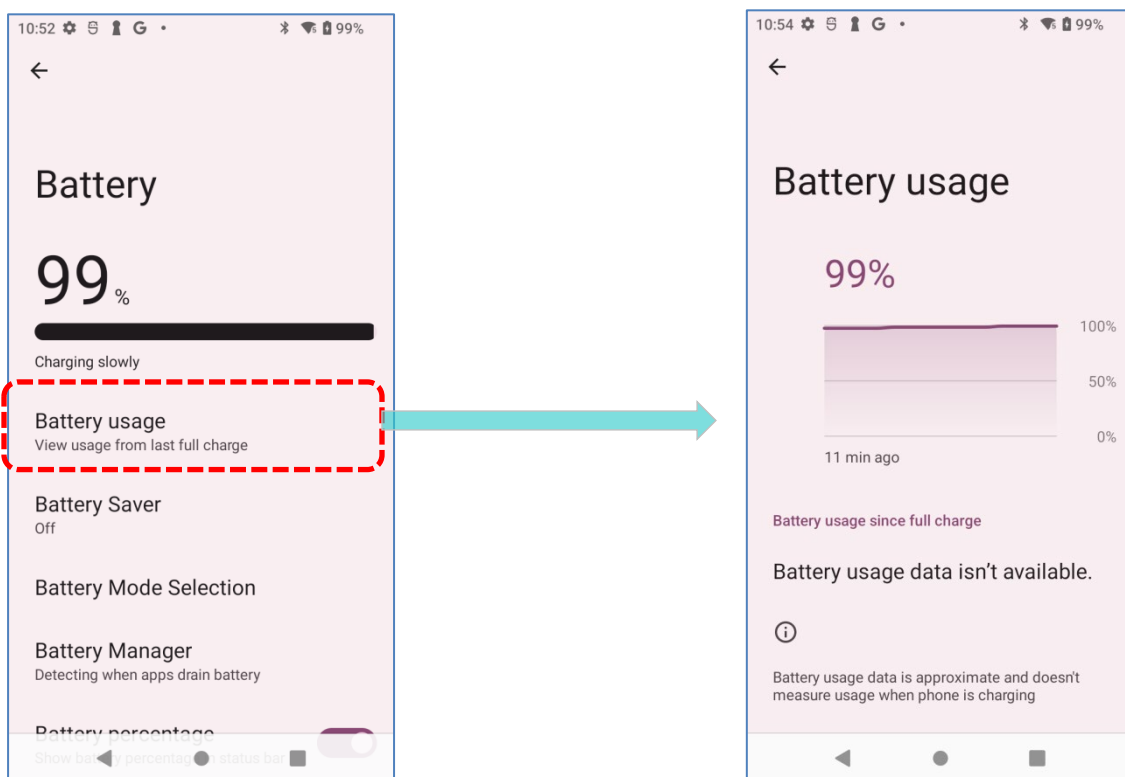
2.1.2. MONITOR BATTERY LEVEL

MAIN BATTERY LEVEL

The main battery is the only source that feeds the mobile computer to work. It also supplies the backup battery on the main board in order to retain the data stored in DRAM. When main battery level gets low, recharge it or replace it as soon as possible. Most critically, back up the important data from time to time to protect your work.

To check main battery level, please go to [App Drawer](#) | **Settings**  | **Battery** 

Battery level percentage is shown to provide a clear grasp of the remaining battery power. Tap on **"Battery usage"** to enter **"Battery usage"** page, the screen shows the rate of battery discharge since the last battery charging session, how long the device has been running on battery power, and which applications are consuming the most battery power.

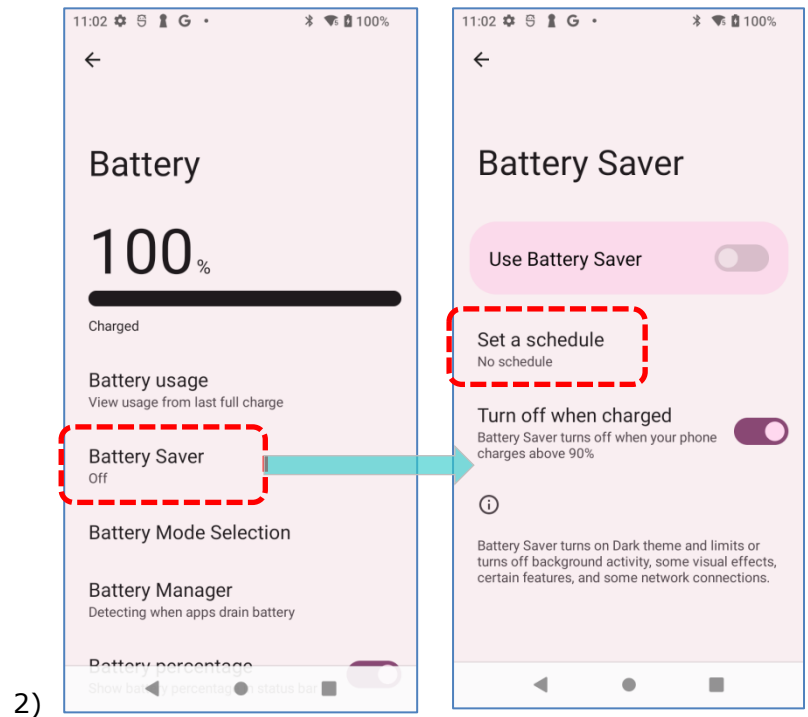


The screen also shows the rate of battery discharge since the last battery charging session, how long the device has been running on battery power, and which applications are consuming the most battery power.

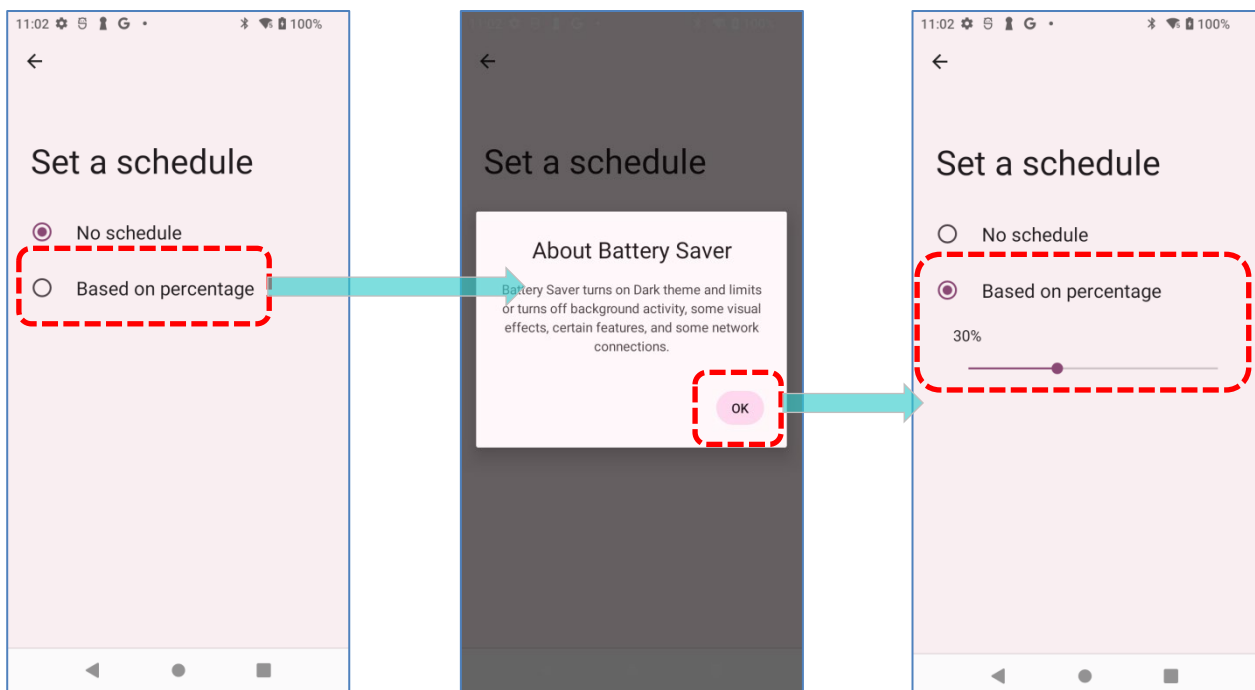
BATTERY SAVER MODE

You can have the **Battery saver mode** automatically turned on when the main battery gets low. This mode will limit the use of location services, vibration and most background processing data.

- 1) On Battery screen, tap "**Battery Saver**" to enter "**Battery Saver**" page, and then tap on "**Set a schedule**".

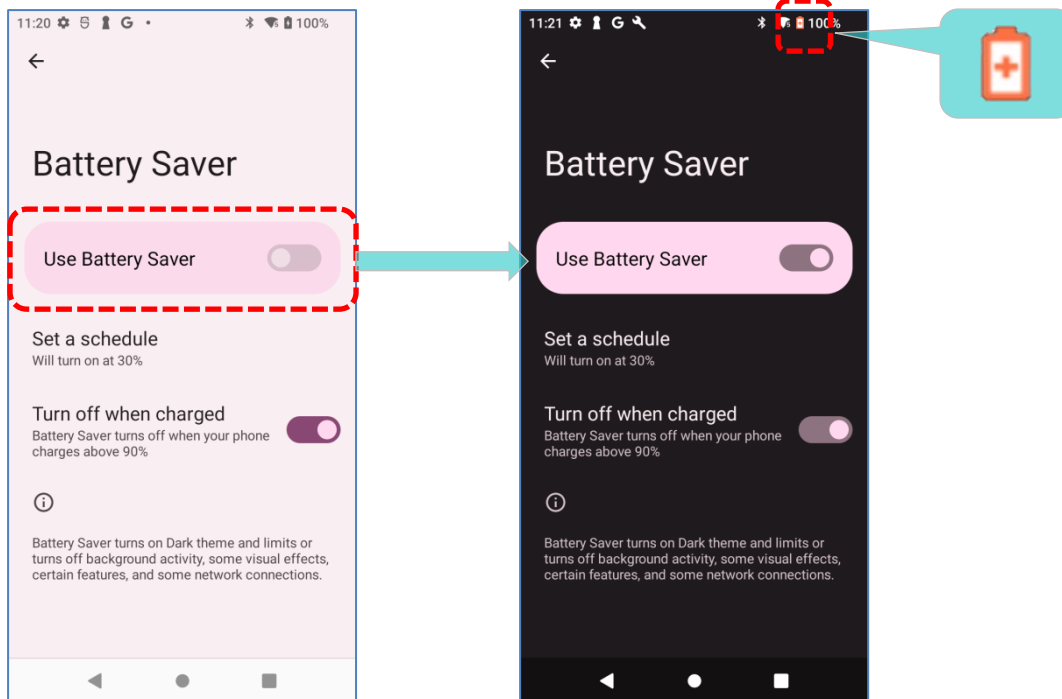



- 3) Tap the radio button of "**Based on percentage**" to display the slider which can be dragged to set when to enable the battery saver mode according to the battery power percentage. The default setting is 5%.

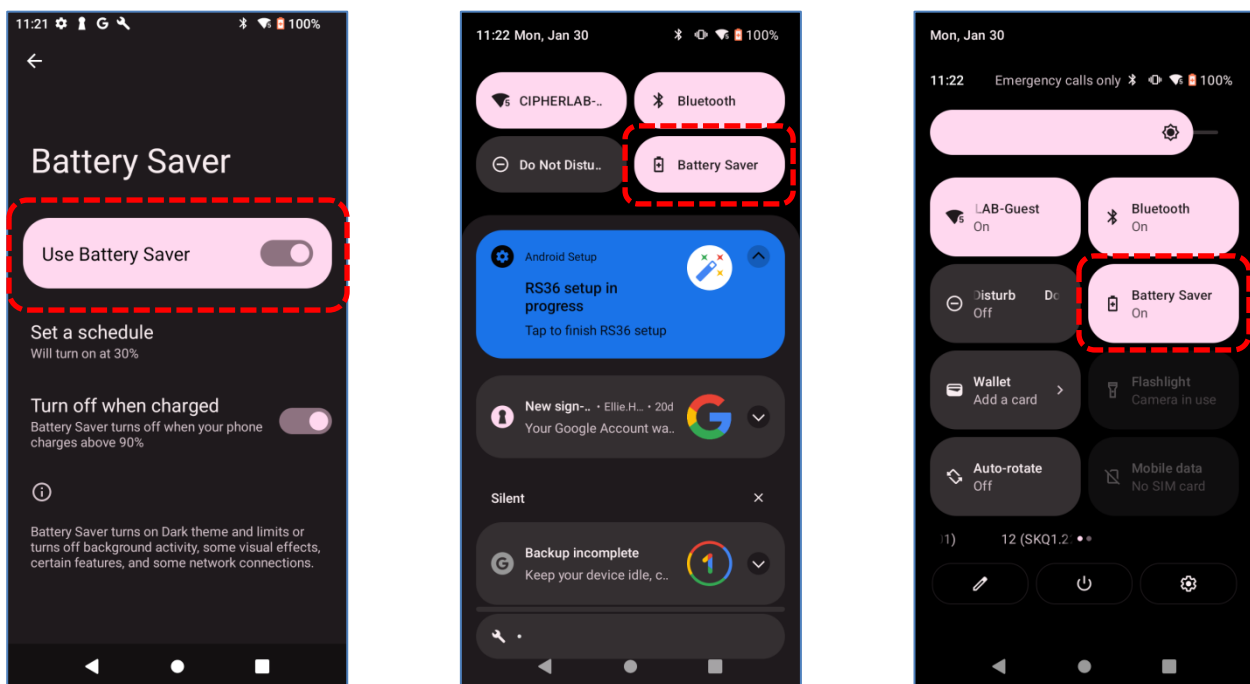




By enabling “**Turn off when fully charged**” on “**Battery Saver**” page, the battery saver mode will be automatically off once the battery power is charged to be 90%.

Tap on “**Use Battery Saver** ” to directly enable battery saver function, and the battery icon on status bar will turn orange once this function is enabled.



Also, you can swipe down from the status bar to reveal **Quick Settings Panel** or **Quick Settings Menu**, and tap the battery saver icon  to enable/ disable it.



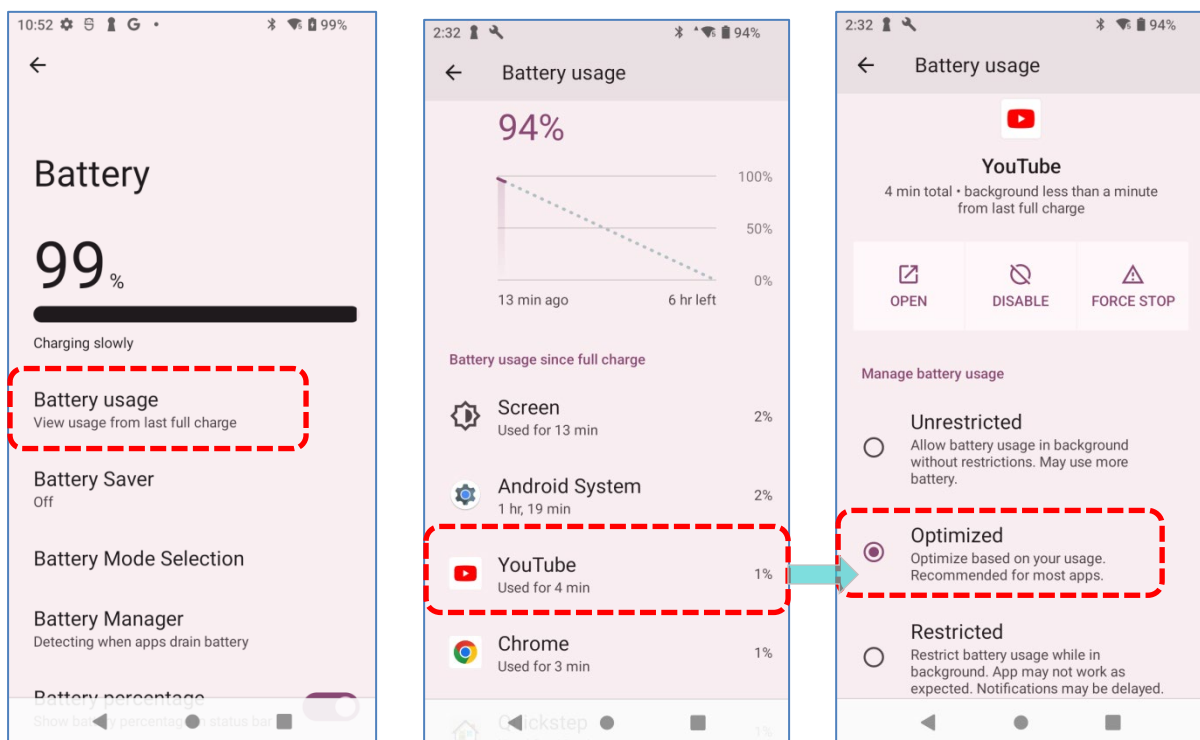
Icon	Description
	Battery saver mode is OFF .
	Battery saver mode is ON .

Note: This mode will automatically become inactive when your device is being charged.

BATTERY OPTIMIZATION

With **Battery optimization enabled** for the applications, you can make sure they stay inactive when your device is idle or when they have not been used for days.

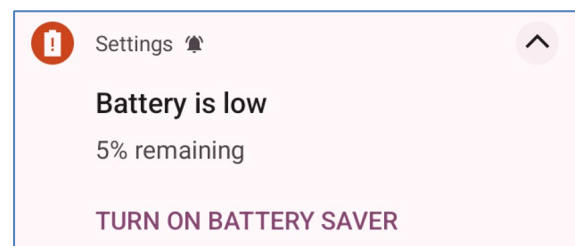
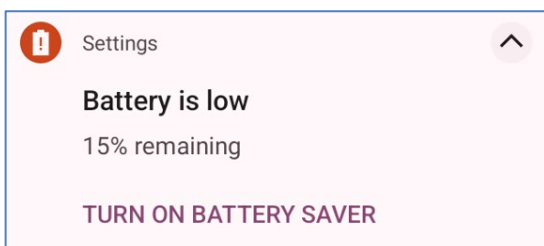
- 1) On **Battery** screen, tap on "**Battery usage**". Tap on any item under "**Battery usage since full charge**".to enter its detail page and tap on "**Optimized**".



LOW BATTERY ALERT

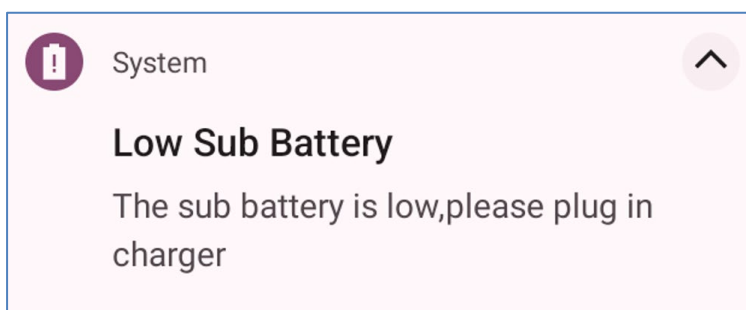
The mobile computer prompts a warning notification reminding you to charge the main battery when the main battery level drops to **15%** and **5%**.

Opening [Notifications Drawer](#), you will also see this warning appearing on the notifications list; you may turn on [Battery Saver Mode](#), connect the mobile computer to an external power source, or replace the main battery pack as soon as possible. To replace the main battery pack, see [Replace Main Battery](#).



LOW SUB BATTERY ALERT

When the main battery's power is drained out, RS36 mobile computer will automatically suspend by backup battery's power for 5 minutes. When backup battery's power is low, the **"Low Sub Battery"** notification will remind you to connect the device with an external power source to charge it immediately. Please note that do not replace the main battery at this moment, otherwise data loss may occur.



2.1.3. REPLACE MAIN BATTERY

When main battery level is low, follow the steps below to replace the main battery.

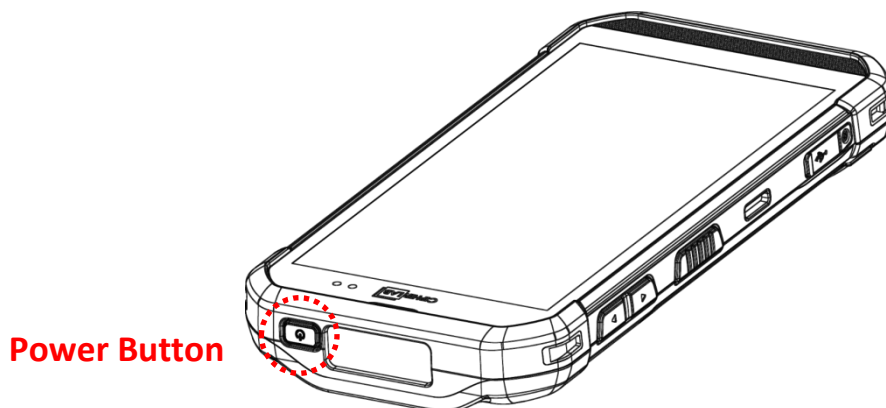
Note:

Always use a fully-charged main battery for battery replacement.

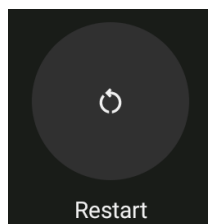
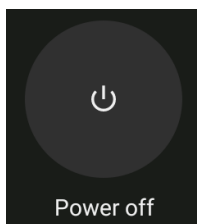
SHUT DOWN TO REPLACE THE MAIN BATTERY

Shut the device down to replace the main battery, please:

- 1) Make sure the sub battery (backup battery) and the new main battery are fully-charged.
- 2) Press and hold the power button on the top end of the mobile computer.



- 3) Tap "**Power off**" in the pop-up menu. The mobile computer will power off.



- 4) Follow the steps as [Install/ Remove Battery](#) describes to remove the main battery and replace it with the new one.

BATTERY SWAP

RS36 backup battery supplies system power during battery swap. When battery cover is removed, the system will enter suspend mode and not wake up until battery cover is put back and the power button is pressed. Please refer to "[Low Sub Battery Alert](#)" section to make sure the sub battery is fully charged before battery swap process.

The available temperature range for main battery hot swap is from 0°C to 50°C. During the period of battery swap, the Wi-Fi and Bluetooth connections are remained for about 30 seconds.

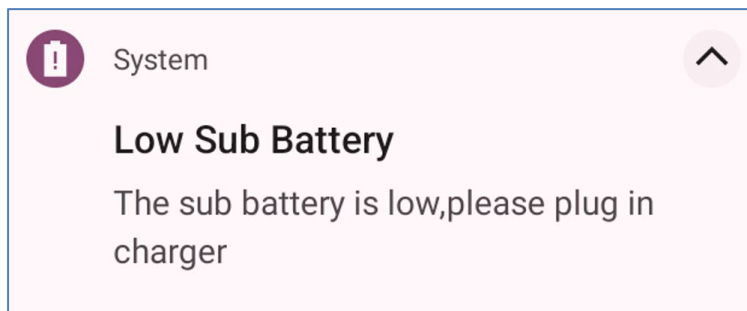
- 1) Directly remove the main battery. The screen is off and the system enters suspend mode.
- 2) When the main battery is removed, system can stay in suspend mode for about 5 minutes. Please replace with a fully-charged main battery as soon as possible.
- 3) Install a fully-charged main battery by following the steps described in [Install/ Remove Battery](#).
- 4) Make sure the main battery is properly installed before pressing the power button to wake up the mobile computer from suspend mode.

Warning:

Please do not perform a battery swapping before the mobile computer's OS is ready. Removing the battery cover during powering up your mobile computer may cause system failure.

Note:

- (1) Make sure to remove the AC or USB Type-C cable before proceeding “Battery Swap”.
- (2) When main battery is removed, the system will stay in suspend mode for about 5 minutes. To prevent the system from being shut down without advance warning, please DO replace the main battery as soon as possible.
- (3) Backup battery keeps the mobile computer in suspension when the main battery is depleted. Thus, to prevent data loss, DO NOT replace the main battery when backup battery’s power is low. Please connect RS36 mobile computer with the external power source to charge it till the “Low Sub Battery” notification icon disappears from the status bar. Once the “Low Sub Battery” notification disappears, the main battery replacement could be proceeded.







2.1.4. POWER MANAGEMENT

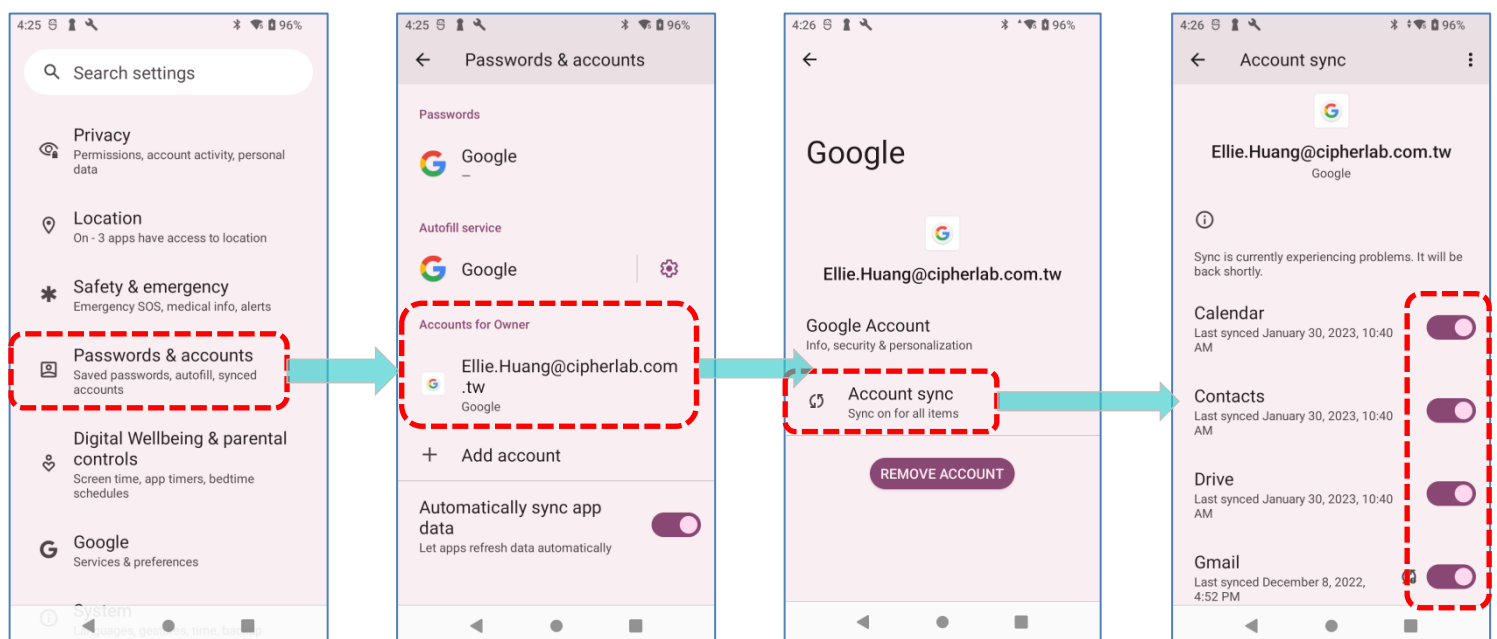
For any portable device, power management is a critical issue especially when you are on the road. Below are some tips to help you save battery power.

Warning:

Using backlight, wireless connectivity, and peripheral devices while on battery power will substantially reduce battery power.

- Bring an additional main battery pack with you on the road.
- End wireless connections (such as Bluetooth transmission, wireless connection, NFC and GPS) which are not in use.
- Shorten the screen off time. See [Screen Timeout Settings](#).
- Reduce the screen brightness level, see [Screen Brightness](#).
- If you have had your Google Account signed in on this device, you could turn off certain automatic data syncing of applications (such as Email, Calendar, and Contacts).

Go to [App Drawer](#) | **Settings**  | **Passwords & accounts**  | **your Google Account**  | **Account sync**  and disable the data syncing services of your desired items.



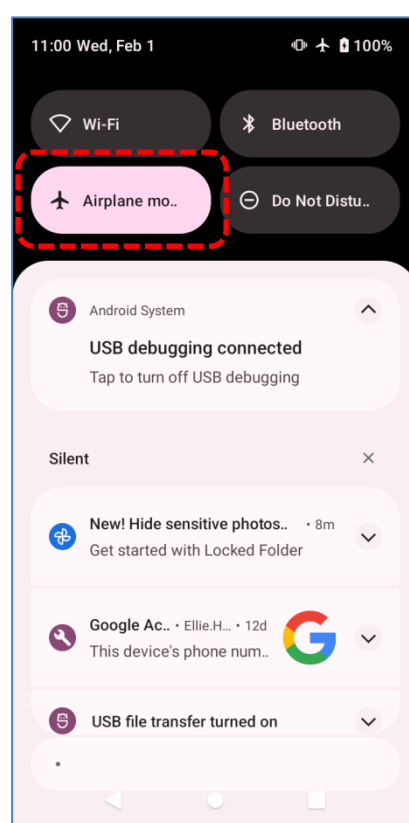
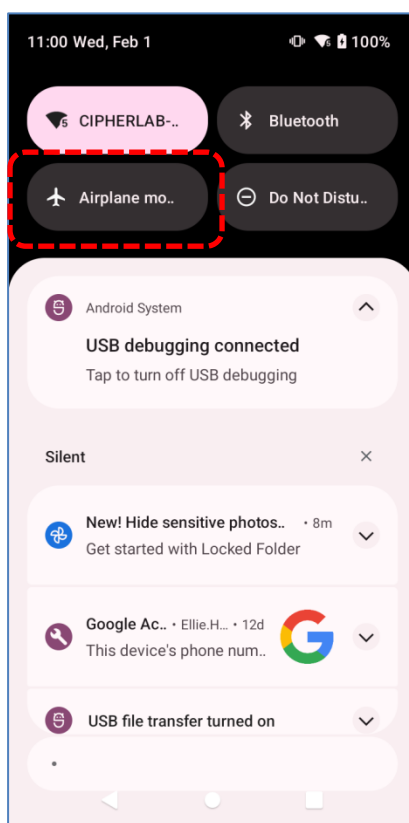
- Enable [Battery saver](#) mode and [Battery optimization](#) mode.

ENTER AIRPLANE MODE



You can enable **Airplane** mode to have all the wireless radios (including call functions, data connections such as Bluetooth, Wi-Fi and 3G/4G) on your mobile computer turned off, which will considerably reduce the power consumption of your battery.

To enter **Airplane** mode, please:

- 1) Swipe down from the top of the screen to open [Quick Settings Menu](#).
- 2) Tap on the **Airplane** mode icon to enable/disable the mode.



3)

Icon	Description
	Airplane mode is OFF .
	Airplane mode is ON .

2.1.5. BATTERY PRECAUTIONS

To preserve battery life and avoid battery bulge:

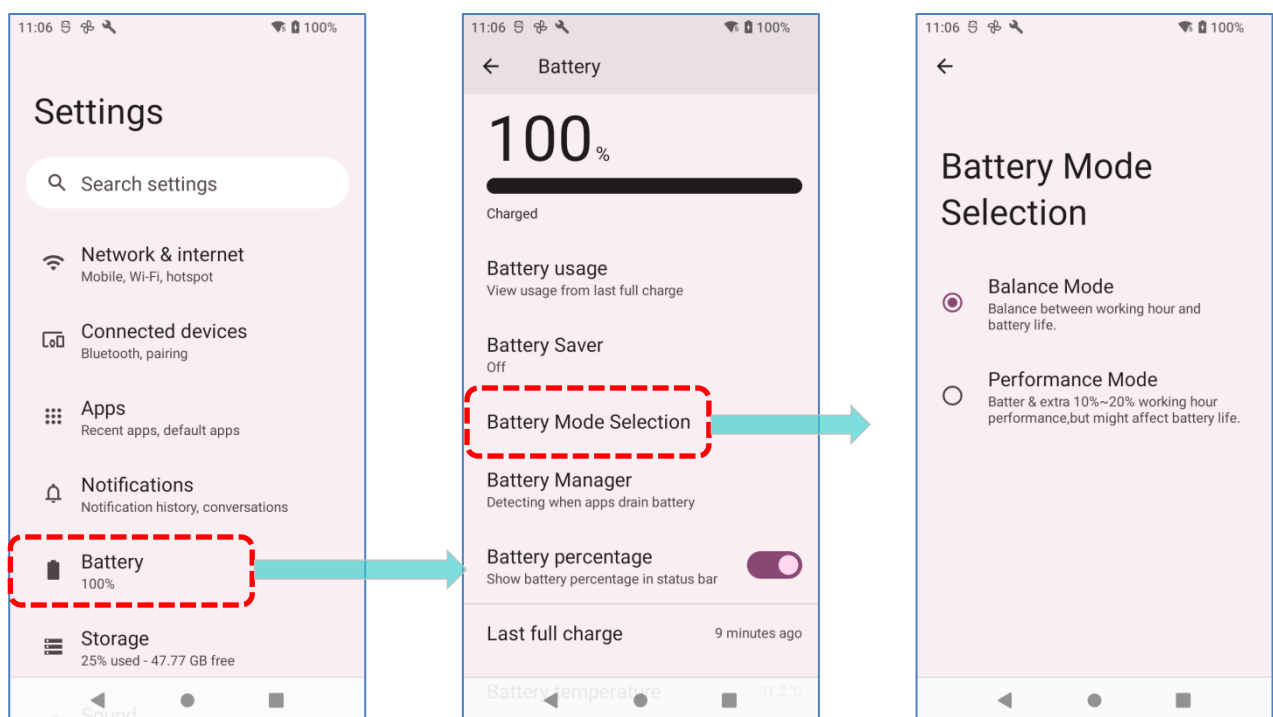
- Please do not use your device while continuously connected with a power supply or cradle for charging. If you need to use your RS36 mobile computer with a power supply or cradle constantly connected, be sure to turn on **"Balance Mode"**.
- If the main battery is fully charged, do not keep connecting your RS36 mobile computer with a power supply or cradle for charging. If you need to constantly connect your RS36 mobile computer with a power supply or cradle, be sure to turn on **"Balance Mode"**.

BATTERY MODE SELECTION

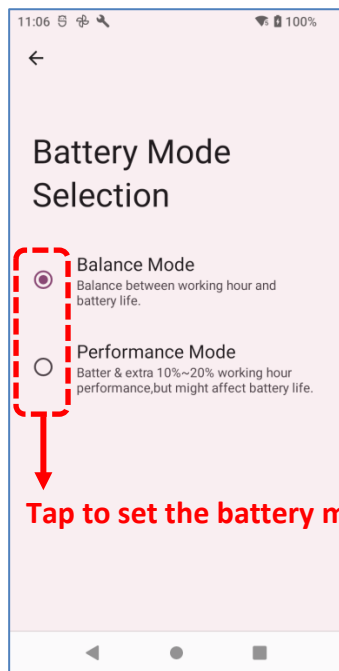
If you need to use RS36 mobile computer while charging, or if the device needs to be connected with the power supply for charging all the time, it is suggested that switching on **"Balance Mode"** for battery life.

The default battery mode is set to be "Balance Mode". To switch between "Balance Mode" and "Performance Mode":

- 1) Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Battery**  , and tap on **"Battery Mode Selection"**.

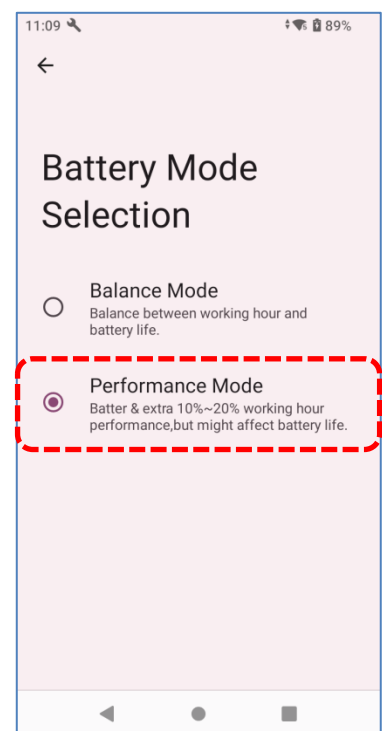
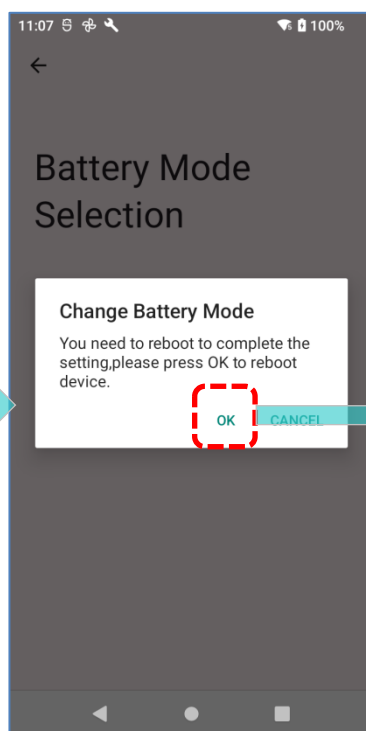
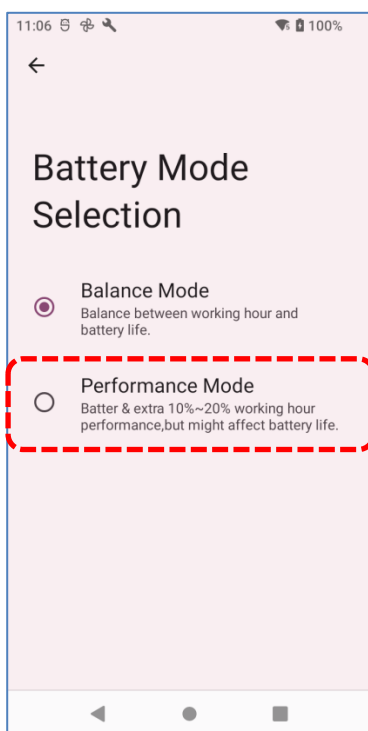


- 2) Tap on the radio button to select “**Balance Mode**” or “**Performance Mode**”.



Mode	Description
Balance Mode	Balance between working hour and battery life.
Performance Mode	Better & extra 10% to 20% working hour performance, but might affect battery life.

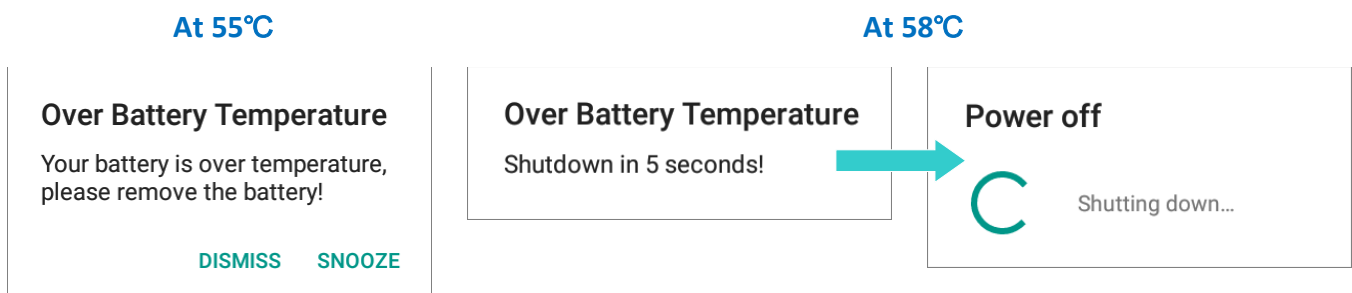
- 3) Once you change the mode, a pop-up message appears to indicate the device needs to reboot to make the change take effect. Tap on “**OK**” to confirm, and the device will automatically shut down and reboot.



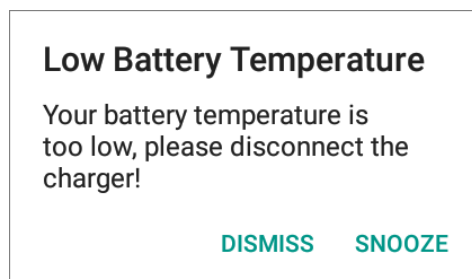
BATTERY TEMPERATURE ANOMALY

High ambient temperature or keeping using RS36 mobile computer while charging might result in battery temperature rises. RS36 mobile computer will automatically suspend charging battery or shut down for safety purpose. Once the battery temperature cools down to normal temperature, battery charging could be proceeded again.

The warning “**Over Battery Temperature**” shows up to instruct you to remove the battery if the temperature of the RS36 battery reaches **55°C** while it prompts to automatically shut down if the temperature of the RS36 battery reaches **58°C**.



Using RS36 mobile computer under low-temperature environment may cause the device shut down automatically. If the battery temperature is at **0°C** or even lower than **0°C** while charging, the red Status LED in the front panel blinks with a warning window popup to remind the user to disconnect the charger, and RS36 mobile computer will automatically suspend charging the battery.



For battery life, please unplug the charger immediately and charge your RS36 mobile computer under appropriate temperature conditions.

2.2. MEMORY

- **Flash Memory (ROM)**

64GB flash memory for storing the OS (Android 12 and custom application programs).

- **Random-access Memory (RAM)**

4GB RAM for storing and running programs, as well as storing program data.

- **Expansion Slot**

The mobile computer is equipped with one SD card slot which can accommodate a micro SD card, a **microSDHC** (up to **32GB**) or a **microSDXC** (up to **64GB-2TB**). When choosing an SD card for best compatibility and performance with RS36, please make sure of the capacity you need. For the use of SDXC card, please use a new card and make sure it has not been used in other host devices (computers, cameras, or readers).

CAUTION OF DATA LOSS

When the main battery is removed or drained, the backup battery on the main board takes over to supply the mobile computer and keep it in suspension. A fully charged backup battery will retain the data in the RAM for **10 minutes**. When the backup battery is drained out as well, the mobile computer will shut down, and only the contents of RTC will be retained (RTC retention will be maintained for at least 72 hours). All other unsaved data will be lost.

If you want to put away the mobile computer for a couple of days, you should be aware that data loss occurs when the main battery and backup battery discharges completely. Therefore, it is necessary to backup data and files before putting away the mobile computer.

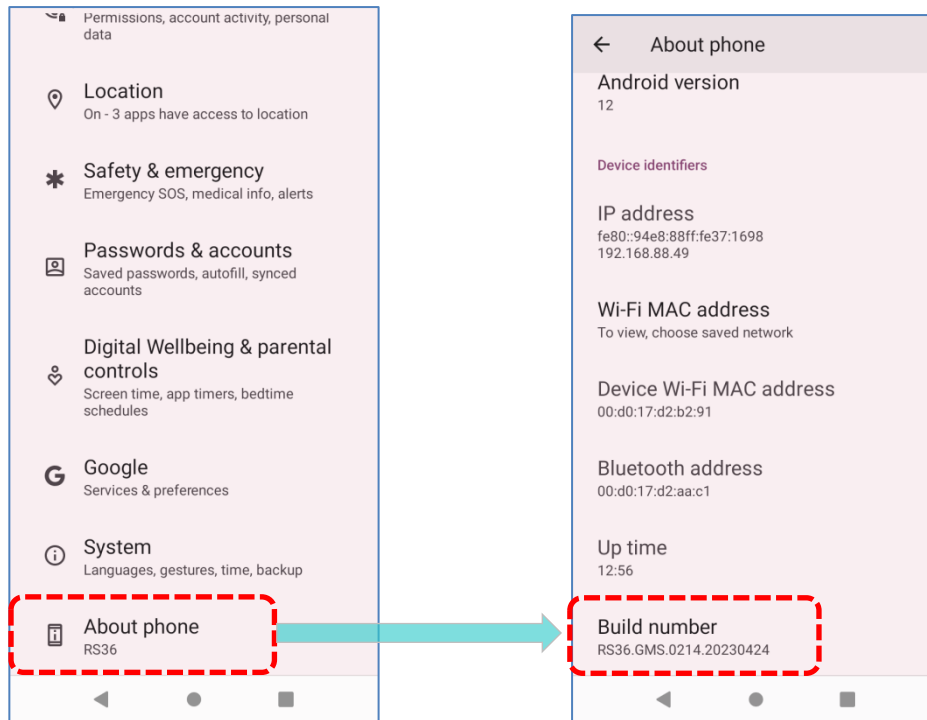
2.2.1. CHECK MEMORY USAGE

The memory manager can offer a glance of how the device is using its RAM. To check the memory usage, you have to enable "**Developer Option**" in advanced.

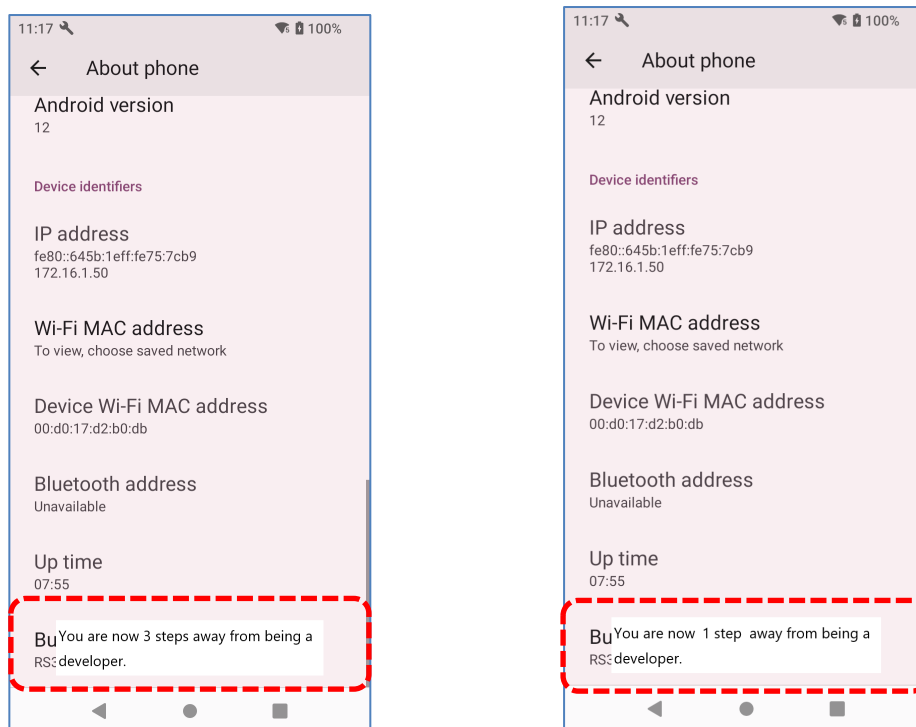
ENABLE DEVELOPER OPTION

Follow the steps below to enable "**Developer Option**":

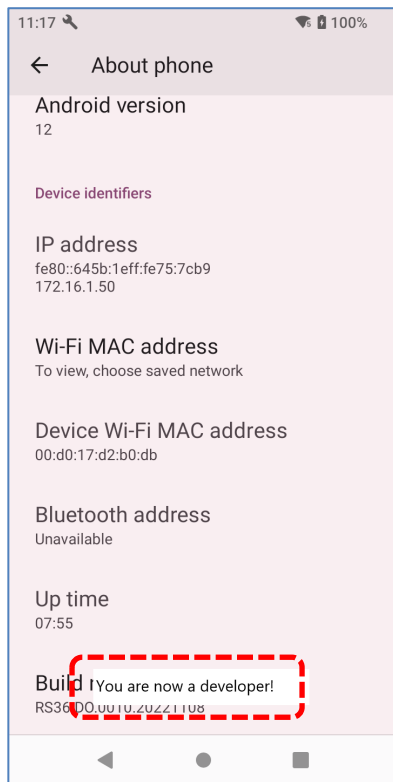
- 1) Go to [App Drawer \(All Apps\)](#) | **Settings**  | **About Phone** , and swipe to the bottom to find “**Build number**”.



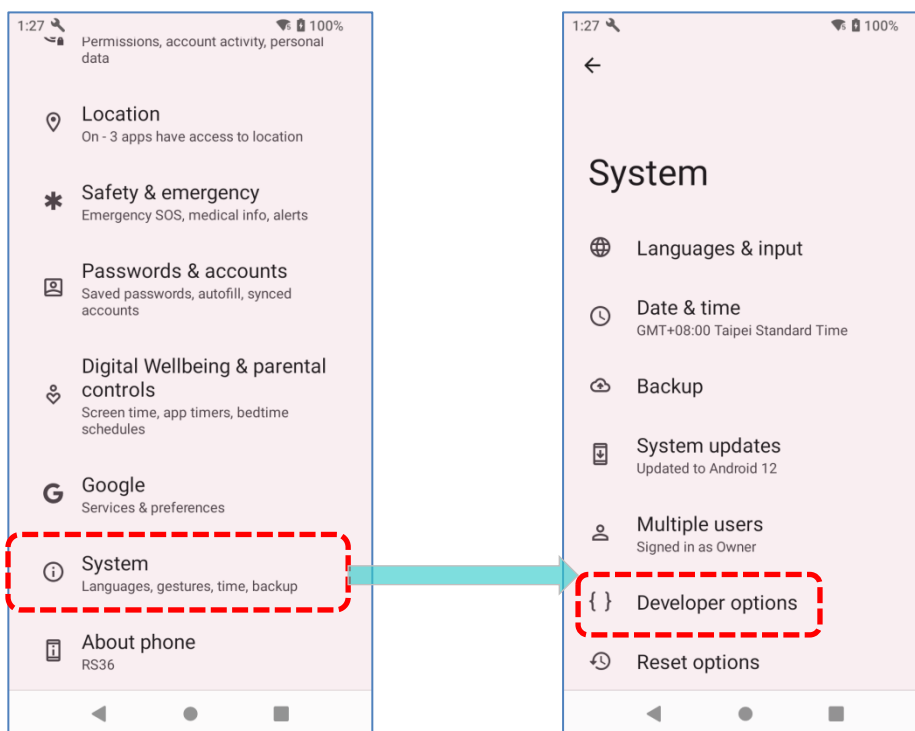
- 2) Tap on “**Build number**” 7 times to enable it. During the process, you’ll see a prompt with a countdown reading “**You are now X steps way from being a developer.**”



- 3) Once the prompt **"You are now a developer!"** showing up, you have succeeded in entering developer mode.

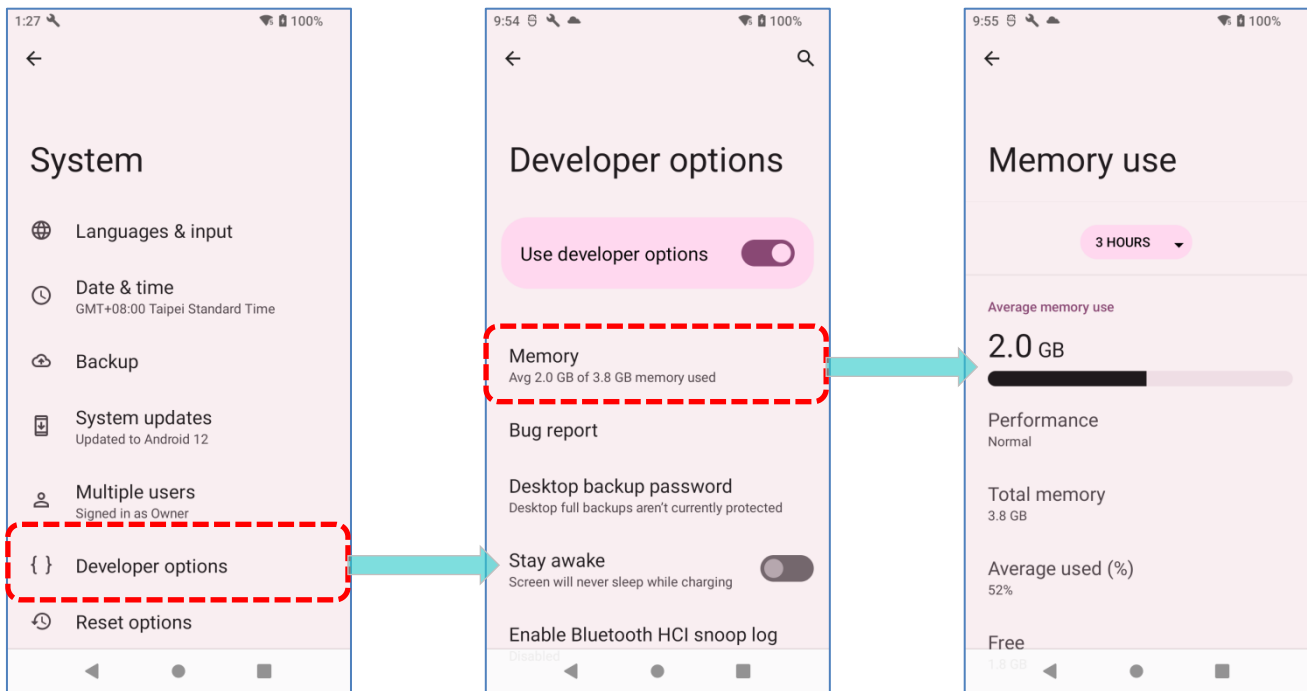


- 4) You can find Developer option { } is now enabled in **System** ⓘ page.

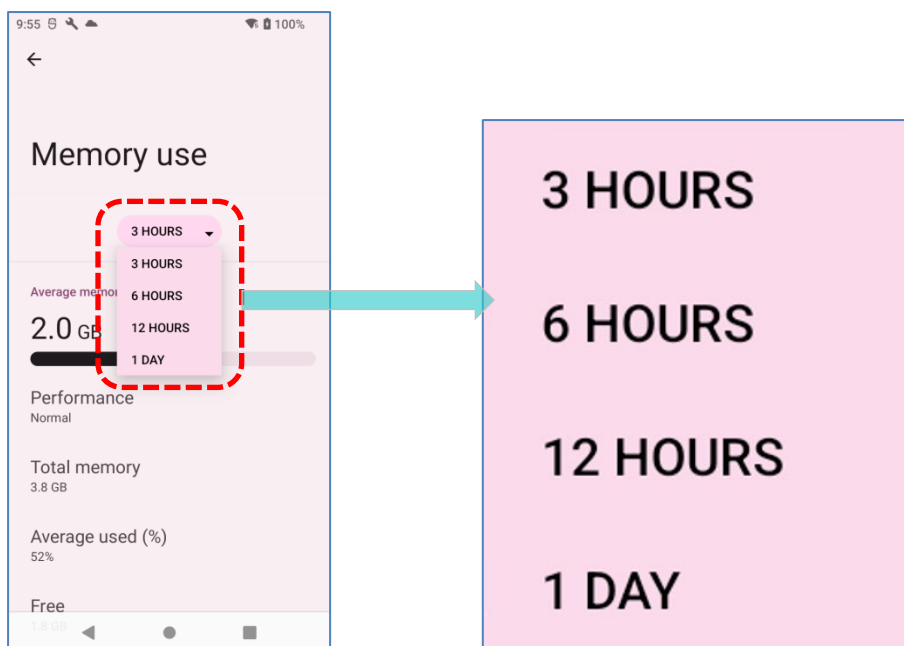


CHECK MEMORY USAGE

Go to [App Drawer](#) | **Settings**  | **System**  | **Developer option** { } | **Memory** to enter memory manager screen.

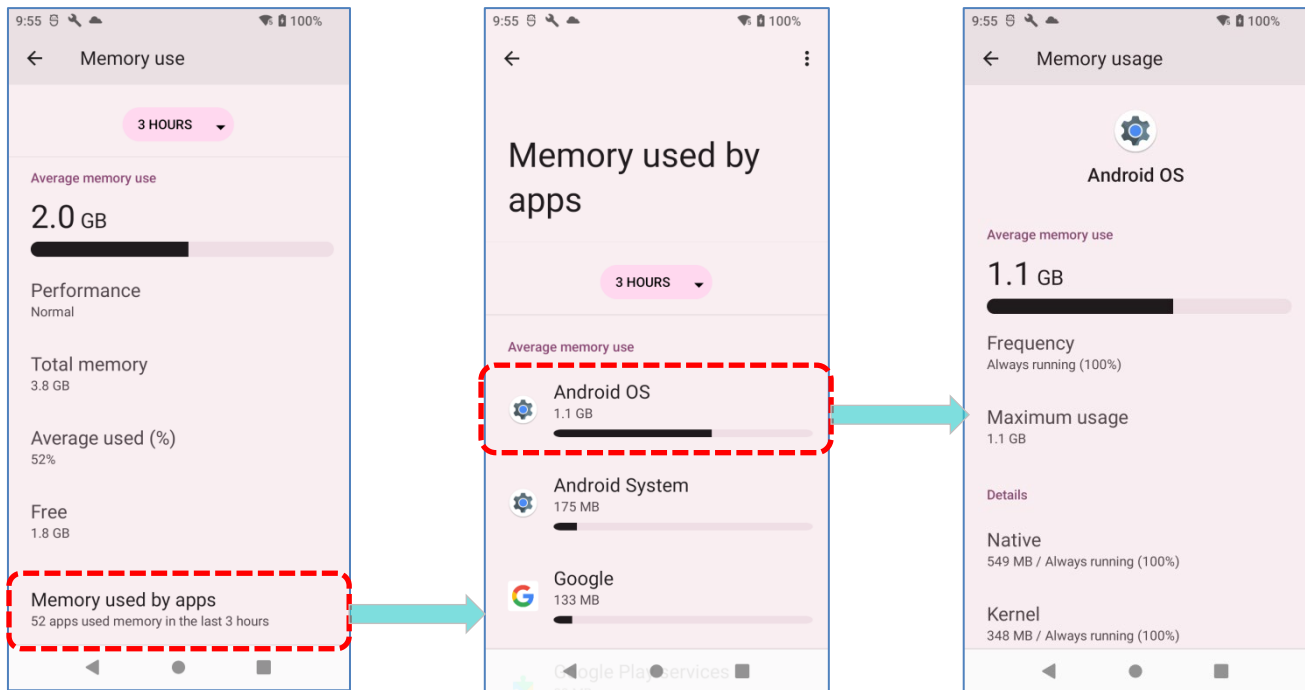


On the main screen, it tells you not only the used and free memory space of the RAM, but how your pattern of usage has impacted the device's overall performance. To figure out how the system and apps have been taking up the memory over a longer period, tap the dropdown list to choose a different time span.



To look at how individual apps are consuming the memory space, tap “**Memory used by apps**” to get a breakdown of memory usage by apps.

Tap an application name to check its memory usage. This allows you to make sense of how much memory a newly-installed application can potentially consume your RAM.



2.2.2. MANAGE STORAGE SPACE

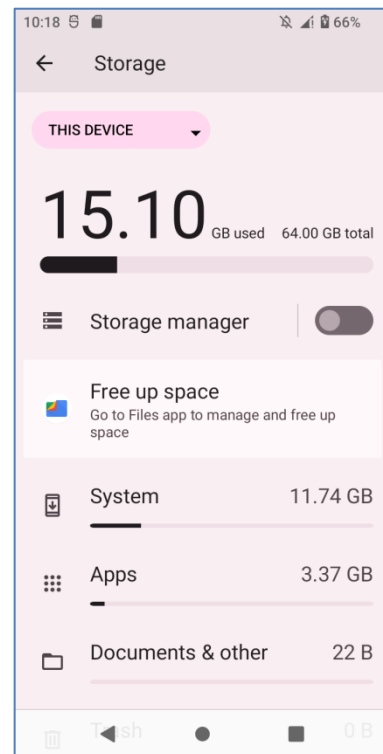
To your Android device, the SD card can serve as an extension of your device's internal storage (which comes as 64 GB of flash memory to store the OS, applications and files) other than a portable storage place.

Go to [App Drawer](#) | **Settings**  | **Storage**  to check usage of the internal and external storage spaces.

By default, all the videos, photos and downloaded files are directly saved to the device's internal storage. If you have previously inserted and mounted an SD card as [portable storage](#), you could transfer/save photos & other media in this SD card; if the SD card is set as [internal storage](#), photos, files, and some apps could be moved to the SD card.

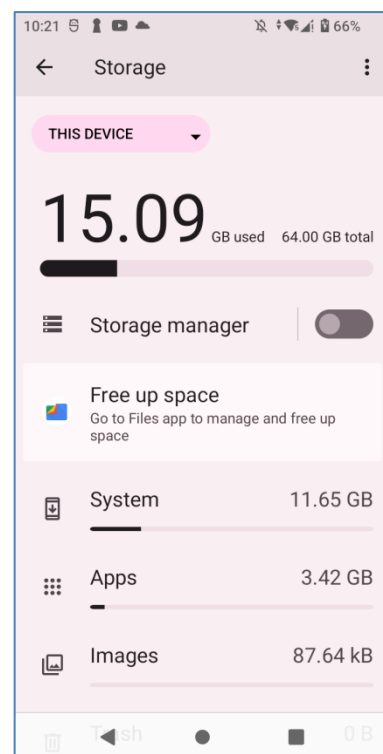
- **SD Card as Portable Storage in Storage Settings Page**

The SD card is used for moving photos and other media between devices.



- **SD card as internal storage in Storage Settings page**

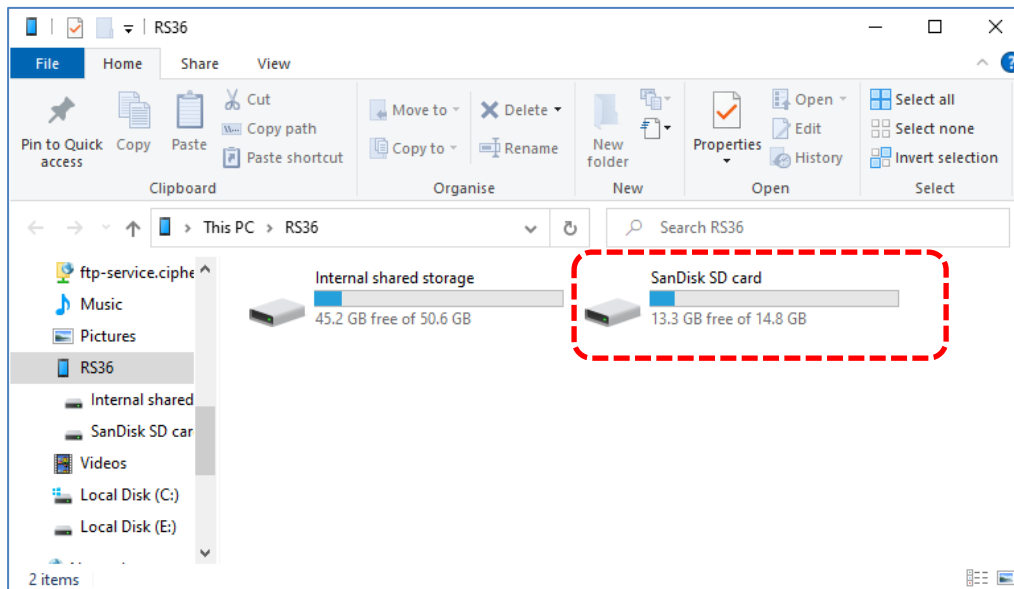
The SD card is used for storing anything on this device only, including apps and photos. Requires formatting that prevents it from working with other devices.



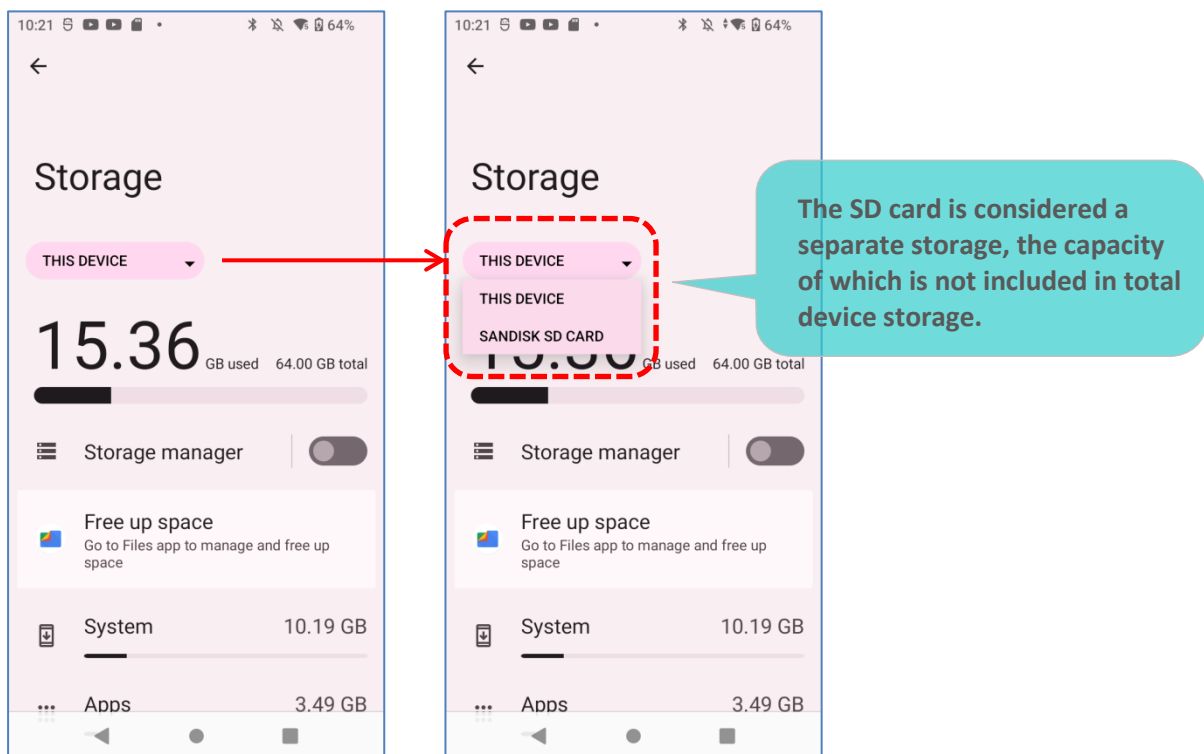
SET UP SD CARD AS PORTABLE STORAGE

Using SD card as a portable device allows you to treat it as a USB disk, by swapping it between your Android device and the computer to easily transfer files. This is quite handy when there is a need to offload files that are taking up too much storage space.


When this device is connected with PC, the disk content is readable from PC client:

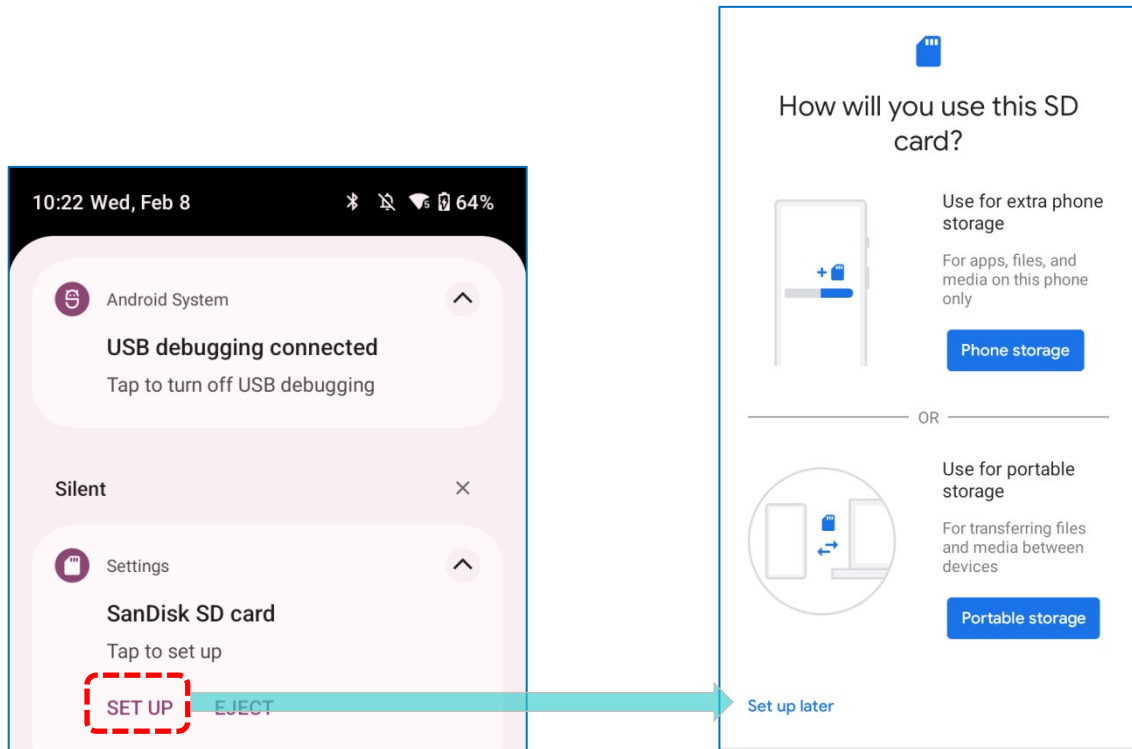


On **Storage** screen, this disk can be managed separately.

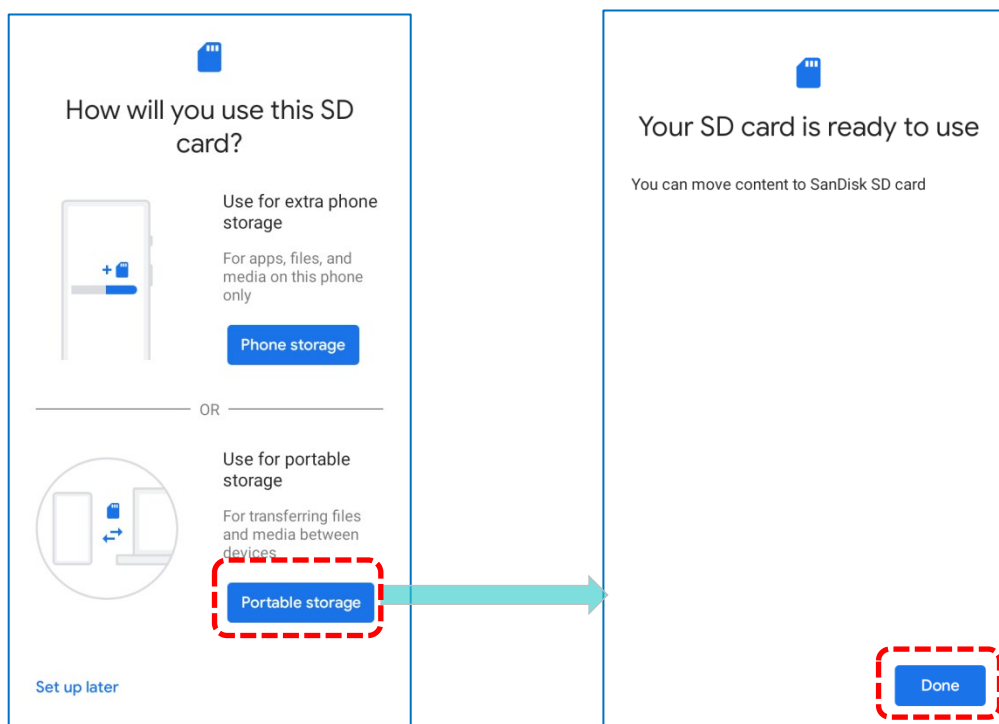


To start:

- 1) Insert the SD card. A notification icon  indicating that an SD card is detected will be shown in the status bar; swipe down from the status bar and tap to set up.

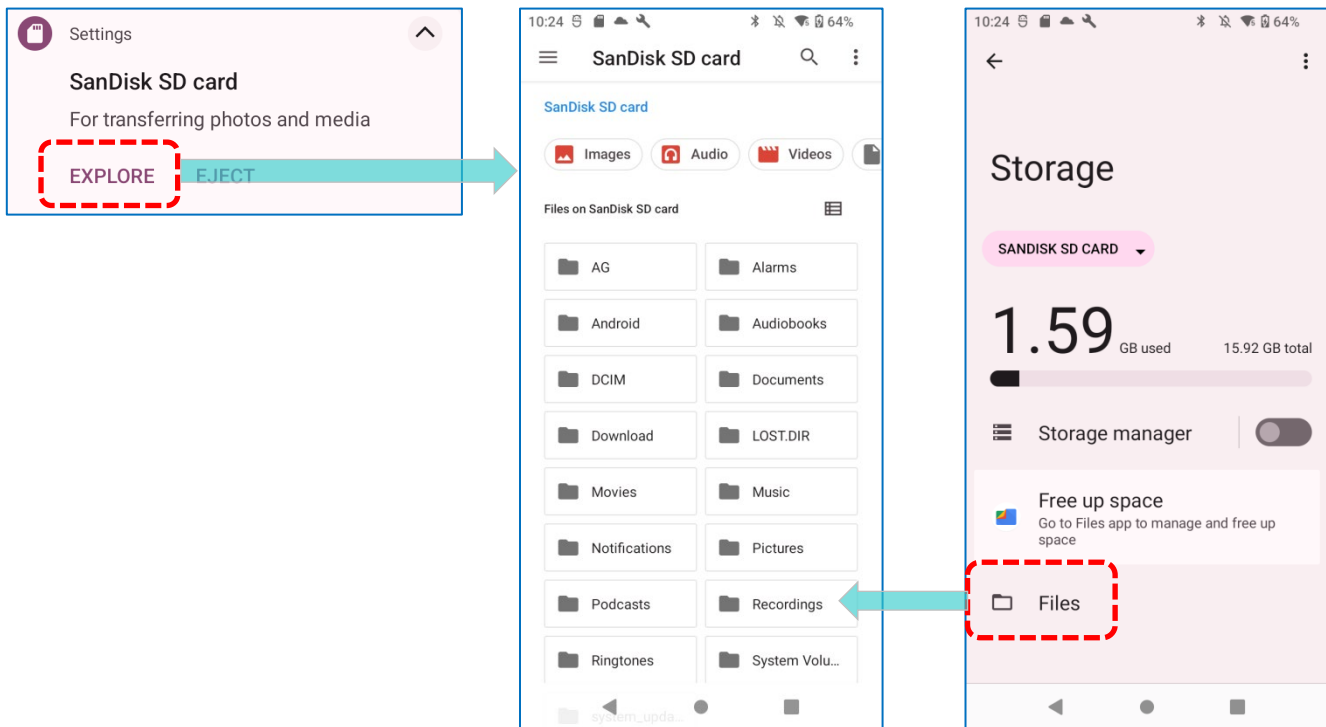


- 2) Tap **"Portable storage"**, and complete the setting by tapping **"DONE"**.



- 3) Swipe down from the status bar to reveal Notifications Drawer, and you will find a notification indicating that the SD card is for transferring photos and media; tap **"EXPLORE"** to check its content.

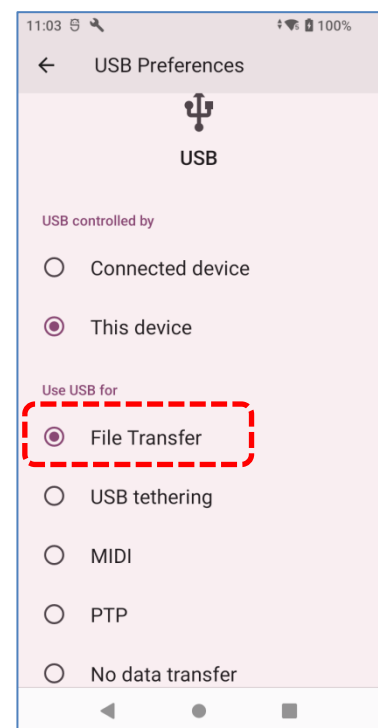
OR tap **"Files"** in **Storage** page to check it.



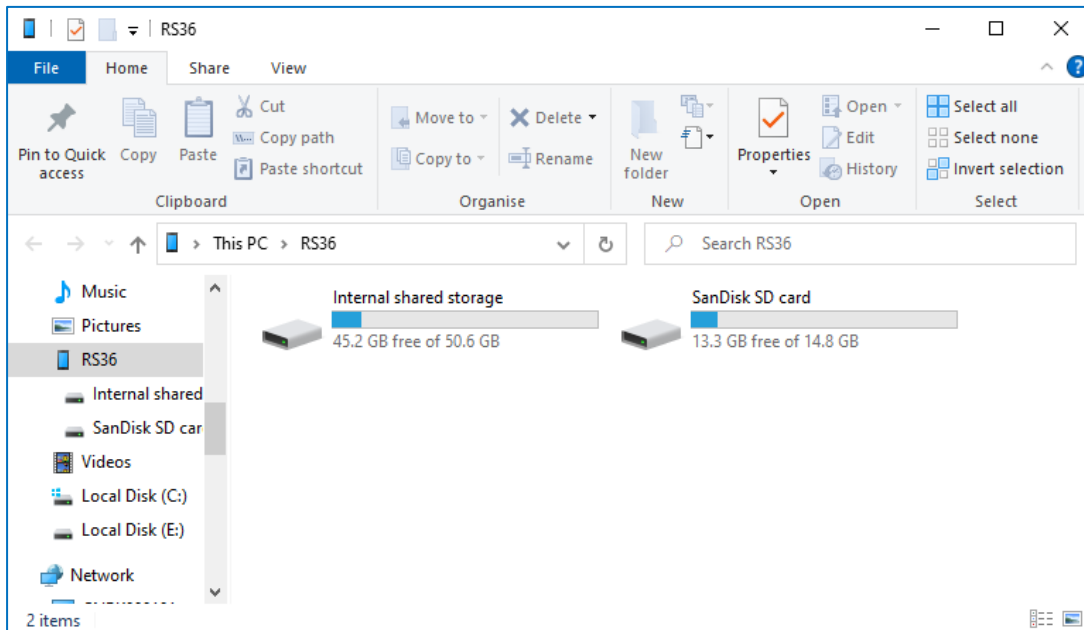
TRANSFER PHOTOS & MEDIA BETWEEN THE DEVICE & PC

To transfer photos and media between this device and PC when the mounted SD card is set as portable storage, please:

- 1) Connect your mobile computer with PC with a USB Type-C cable/ the snap-on cable/ the cradle, and **"USB Preference"** page shows up. Tap to choose **"File Transfer"**.



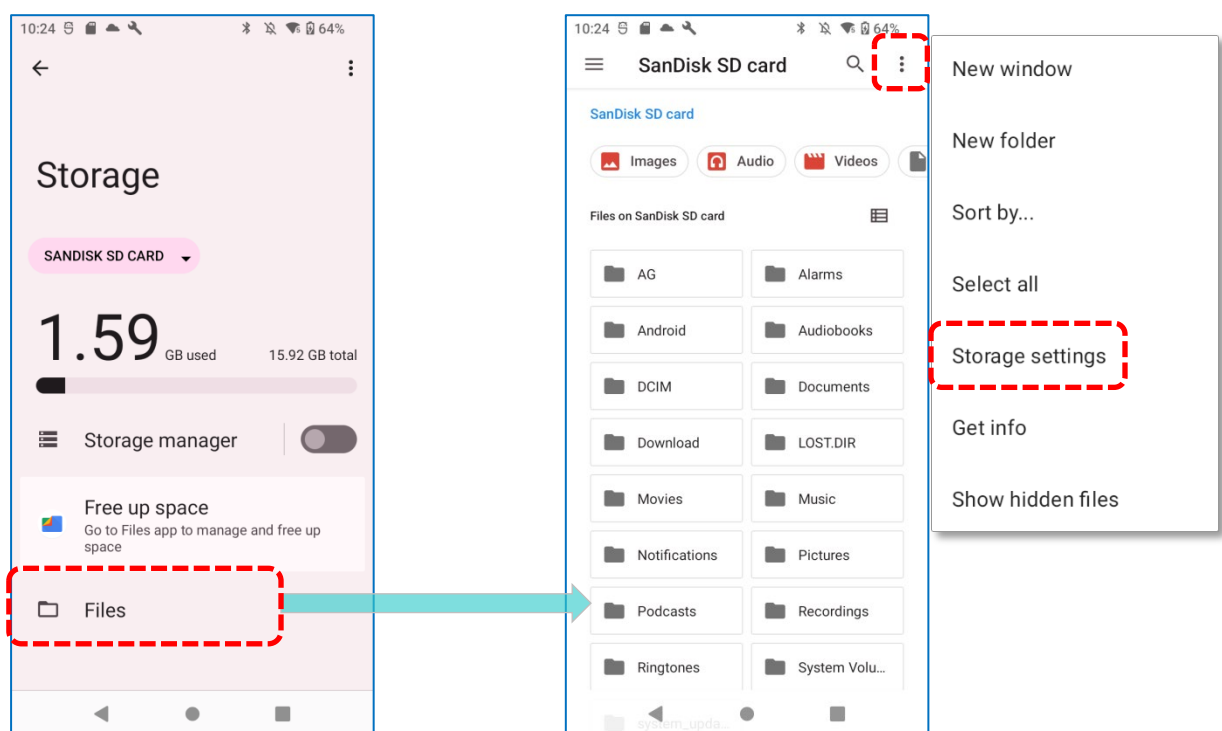
- 2) You will find the disk content is readable from PC client. Please make sure the USB cable is properly connected while transferring files over USB connection.



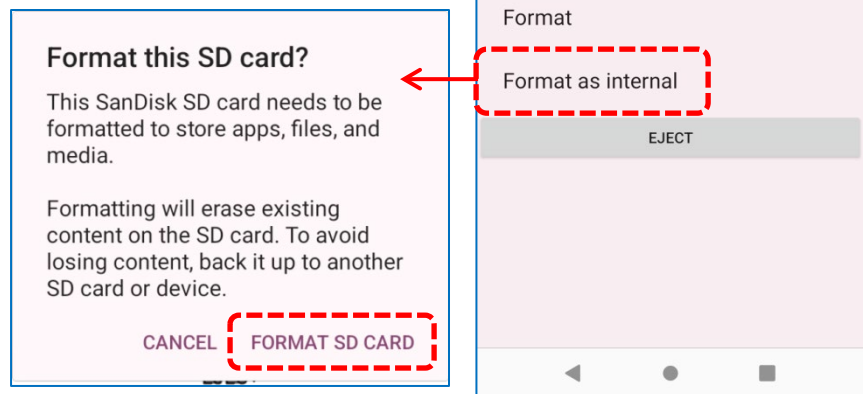
CONVERT THE SD CARD TO INTERNAL STORAGE

You can always convert the SD Card from portable storage to internal storage. Before you start, make a backup of the files on this disk if you would like to keep them.

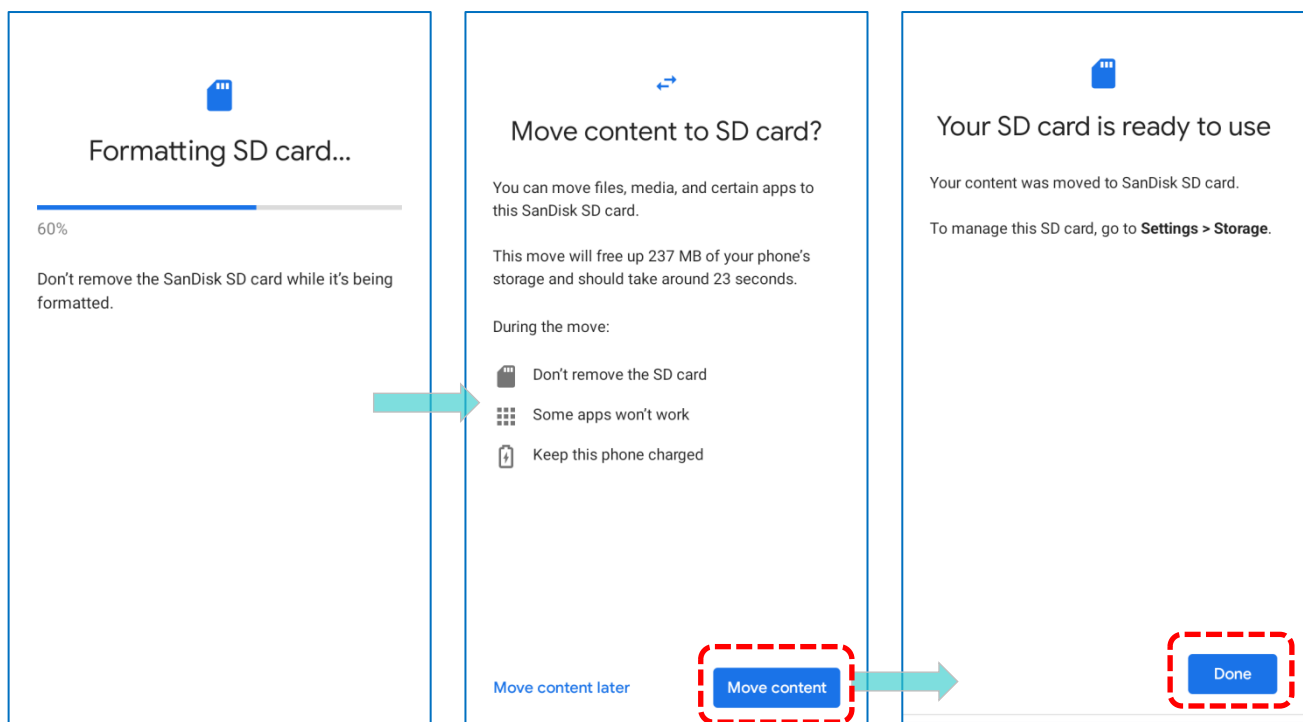
- 1) On **Storage** screen, tap the SD card to enter the SD card content screen. Tap **More** and then select "Storage settings".



- 2) By selecting **"Format as internal"**, the device will eventually format this SD card into a specific file format only readable by this device.
- 3) On **"Format this SD card"** popup, tap **"FORMAT SD CARD"** to format the card.



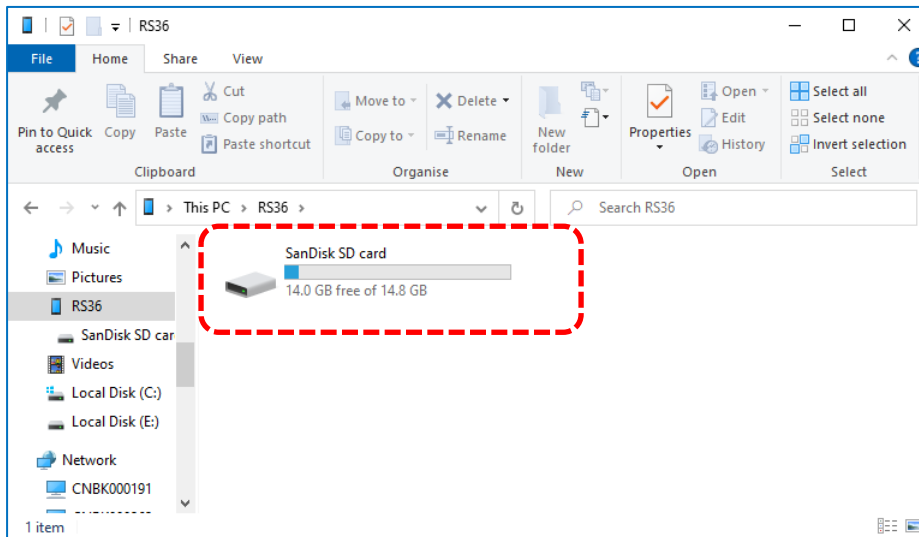
- 4) You will then be asked whether to move multimedia files to this new SD card right away or later; tap to make your choice.
- 5) When the formatting is completed, tap **"DONE"**.



SET UP SD CARD AS INTERNAL STORAGE

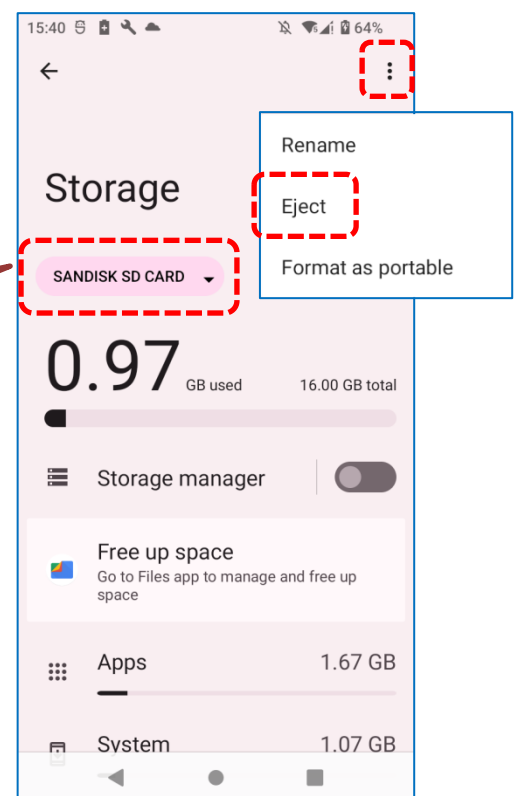
Using SD card as internal storage allows you to extend your existing device storage and to store huge applications. This SD card will be reformatted and encrypted with a file format that is not readable by another device. Therefore, it is essential that you back up important files on this SD card in advance. Please note that if you eject this SD card, the applications and media files stored on it will not be available until you reinsert the card.

When this device is connected with PC, the disk content is not readable from PC client:



On **Storage** screen, the capacity of this SD card is merged into the total device storage. Please note that, in this setting, you will have no control of which files to be stored on SD card.

To eject this SD card:
 (1) Select this SD card.
 (2) On SD card content screen, tap **More** and then tap **"Eject"**.

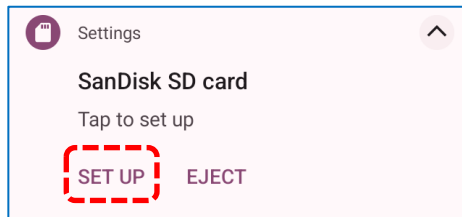


Warning:

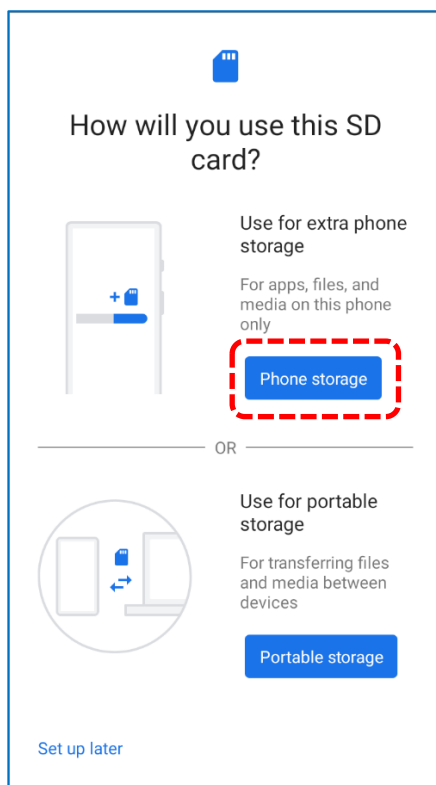
Do not physically remove the SD card from the device without ejecting this card in advance.

To start:

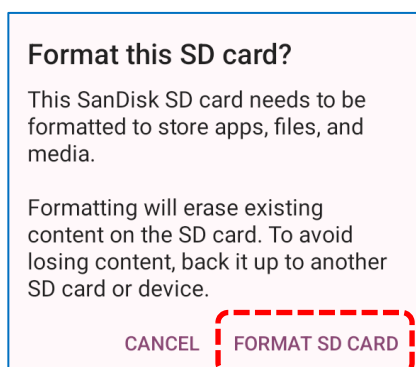
- 1) Insert the SD card. A notification will pop up indicating that an SD card is detected. Tap on **"SET UP"**.



- 2) Tap on **"Phone storage"**.

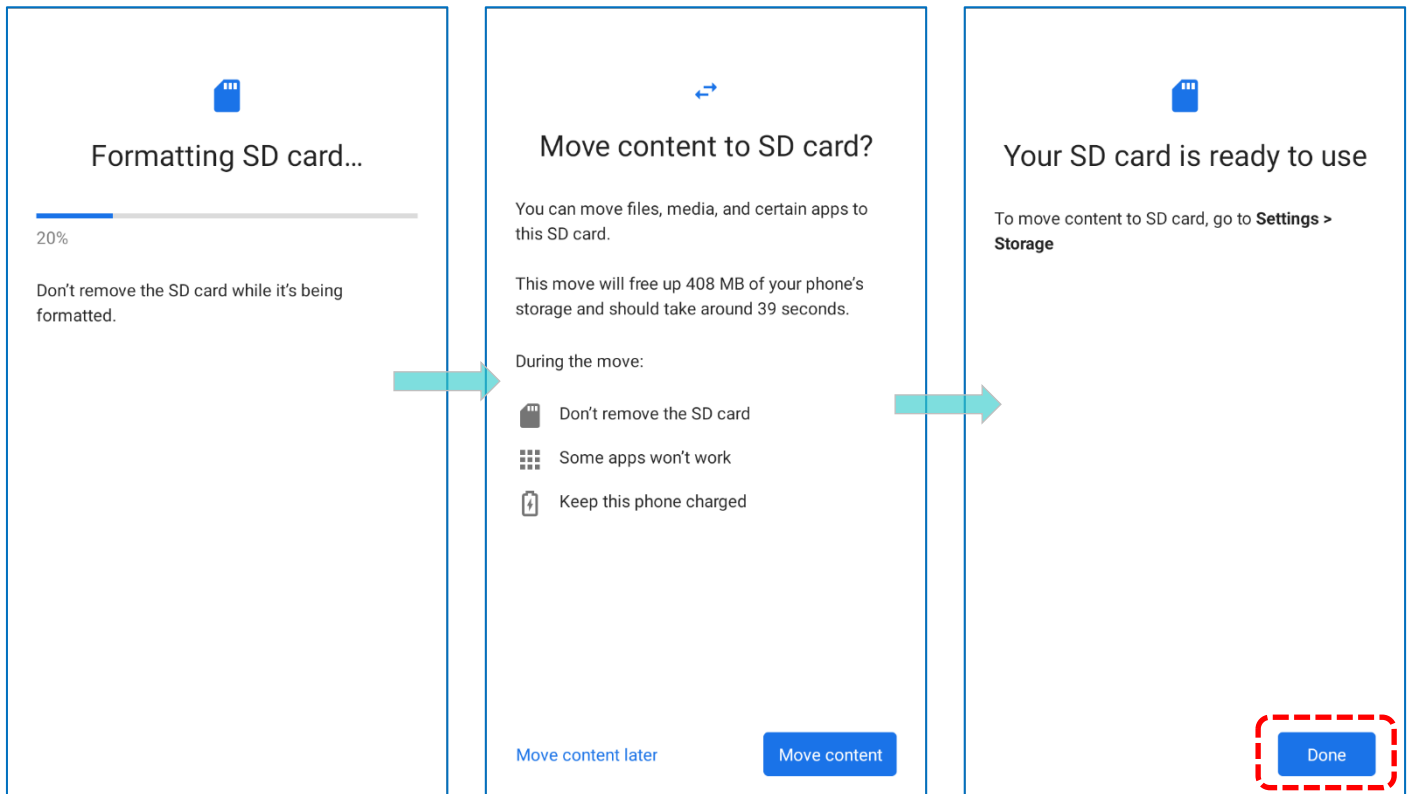


- 3) On the popup window, select **"FORMAT SD CARD"**.



4) You will then be asked to whether to move media files to this new SD card, tap to make your choice.

5) When the setting is completed, tap **"DONE"**.



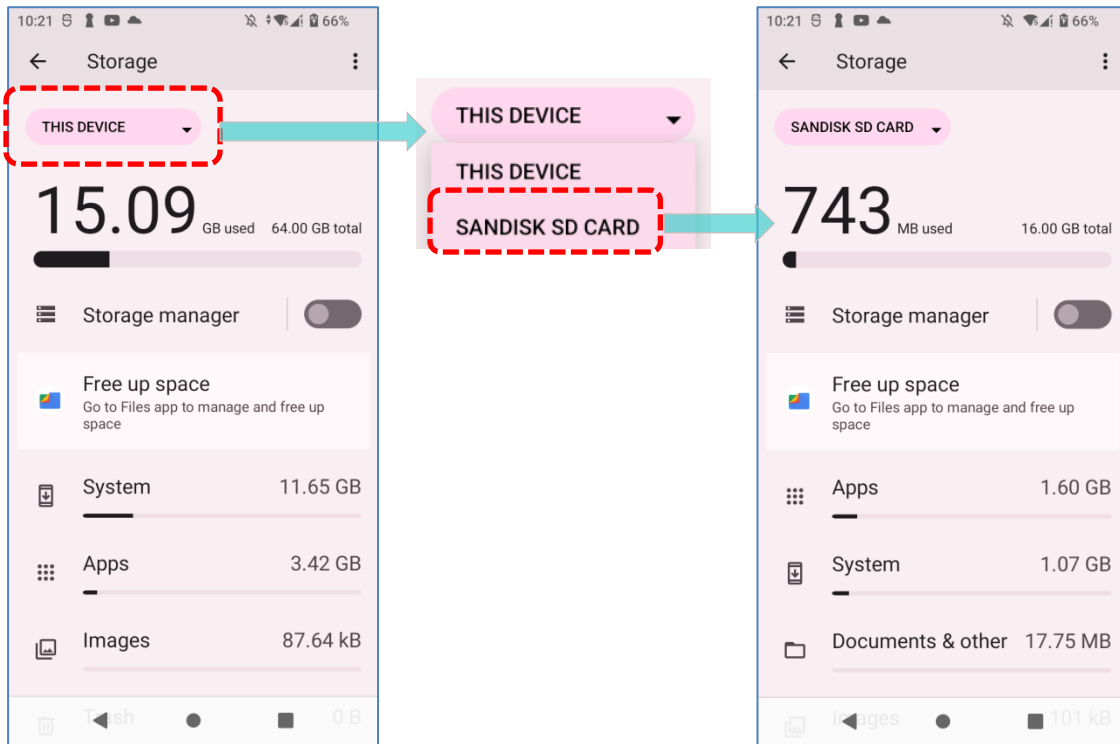
Note:


It is recommended that you select **"Move content"** at Step 4 to have the device immediately start making use of SD card space. If you select **"Move later"**, the device will continue to consider device's original storage the primary location to save files.

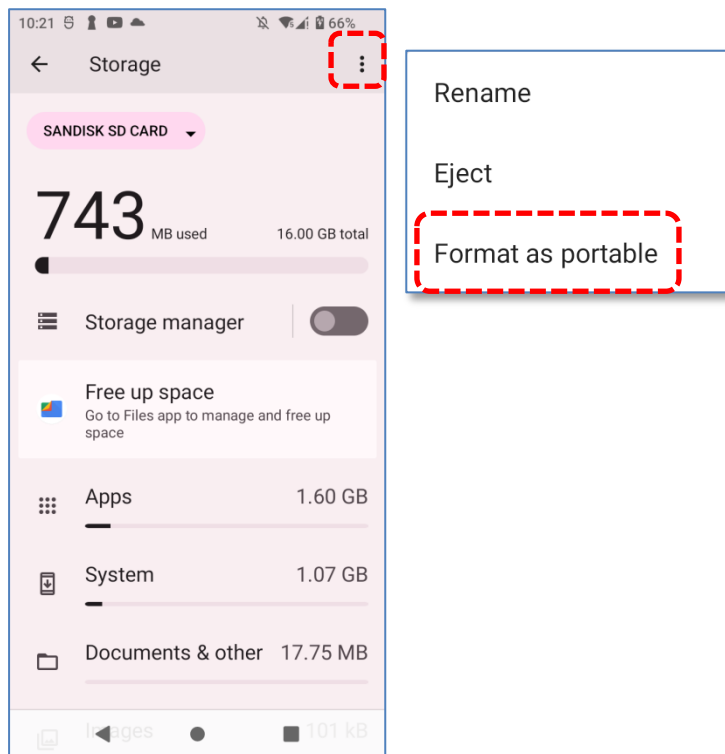
CONVERT THE SD CARD TO PORTABLE STORAGE

You can always convert the SD Card from internal storage to portable storage. Before you start, make a backup of the files on this disk if you would like to keep them.

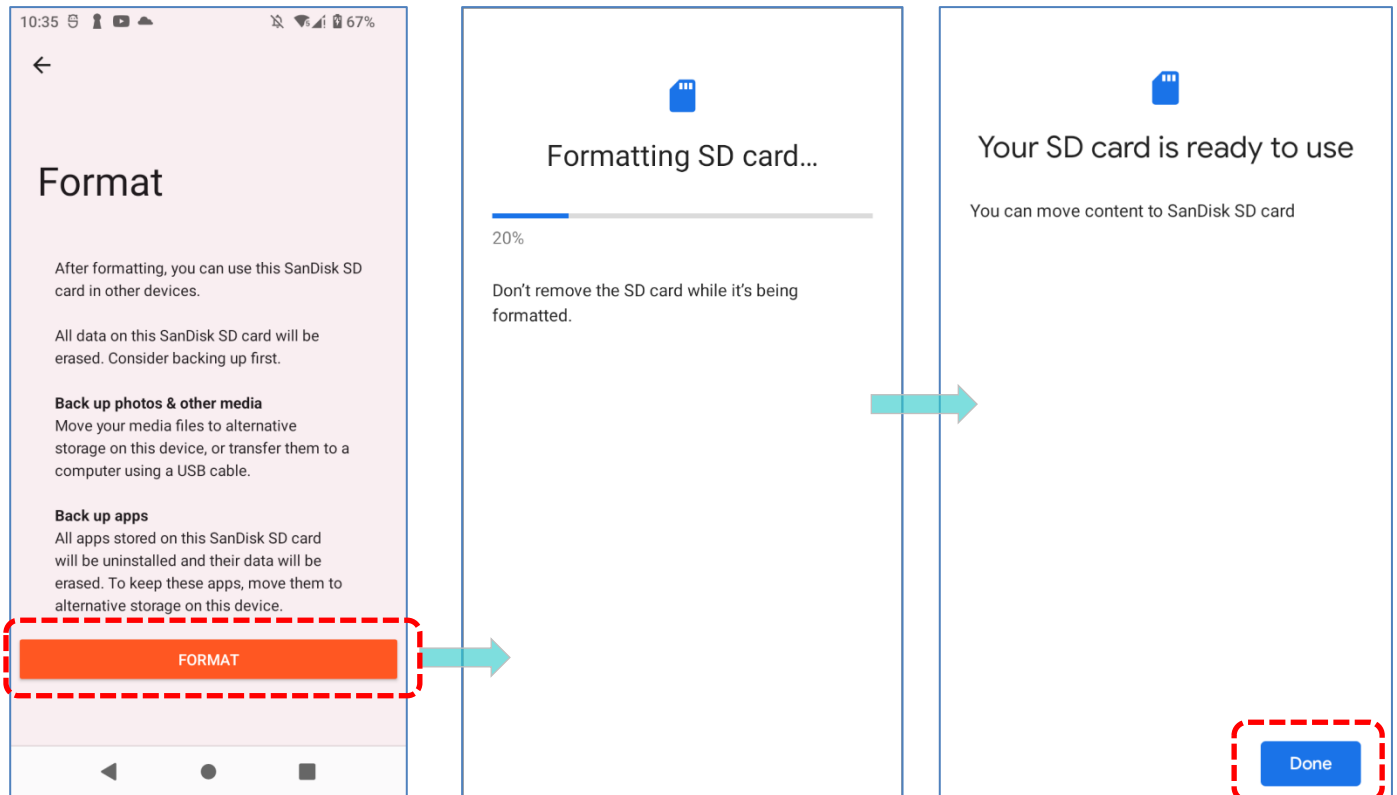
- 1) Enter the SD card content screen from **Storage** screen by tapping on "**SD card**".



- 2) Tap **More**  and then "**Format as portable**".



- 3) Tap **"FORMAT"** to have this SD card re-formatted into a file type accessible by other devices.
- 4) When the formatting is completed, tap **"DONE"**.



Note:

Please do back up important files on this SD card before proceeding formatting.

2.3. TOUCH SCREEN

The mobile computer comes with a 5.5-inch, transmissive IPS LCD, Corning® Gorilla® Glass display with 720x1440 HD resolution. The LED backlight of the screen, which helps ease reading under dim environments, can be controlled manually and automatically.

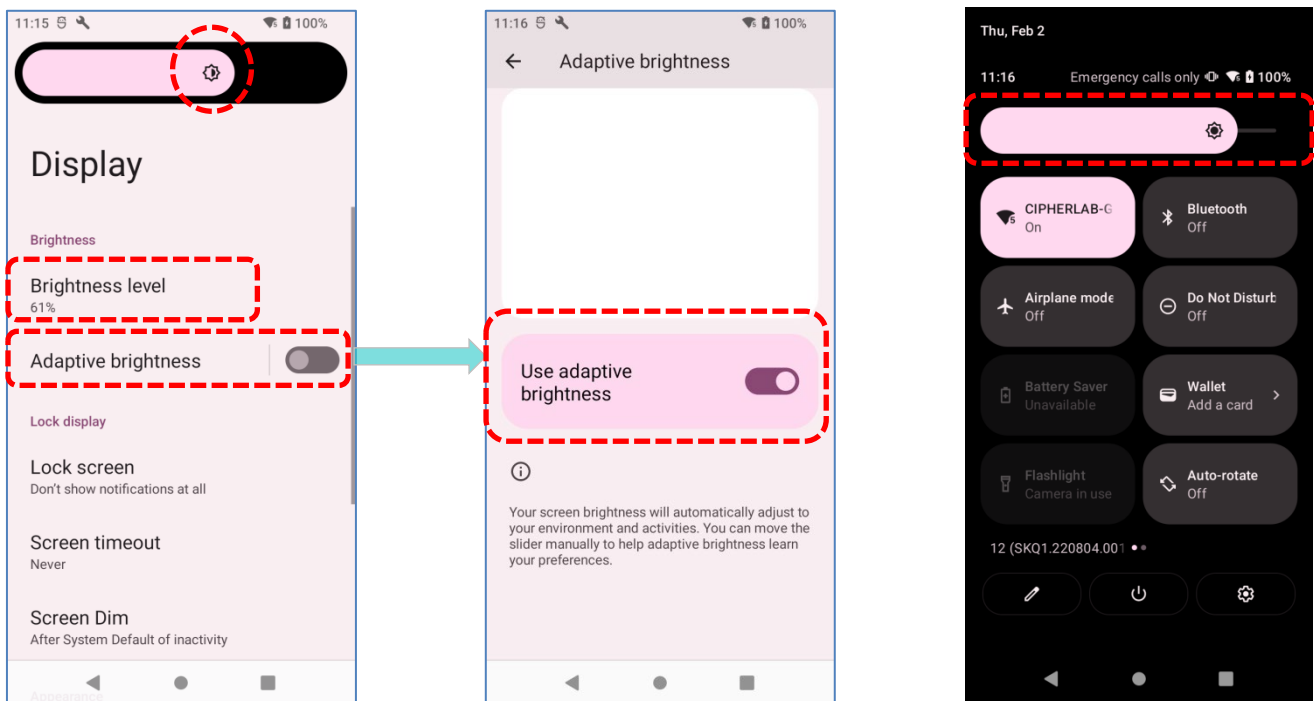
Warning: **DO NOT** use any pointed or sharp objects to move against the surface of the screen.

2.3.1. SCREEN BRIGHTNESS

Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Display**  | **Brightness level**.

Adjust screen brightness by dragging the slider to the right (to increase brightness) or left (to reduce brightness). Switch on the **Adaptive brightness** to enable automatic backlight adjustment with the mobile computer's built-in sensor.

You can also use the shortcut button on **Quick Settings Menu** to adjust the brightness level.



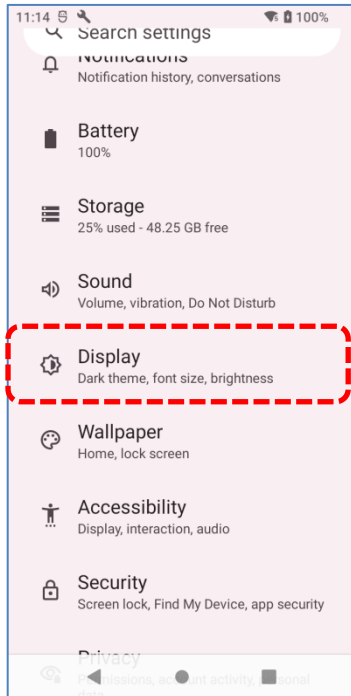
Note:

To save battery power, dim the screen brightness while working in a well-lit area, or set a shorter [sleeping plan](#) for the screen backlight to go off.

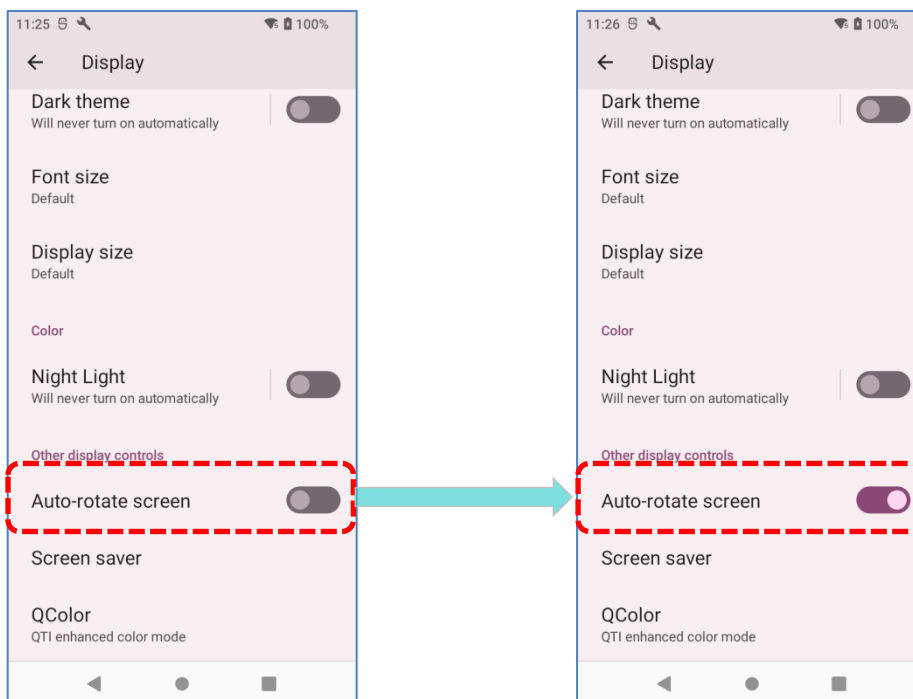
2.3.2. SCREEN ROTATION

By default, the device automatically rotates the screen to when you turn the device sideways. To switch this function on or off:


- 1) Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Display** .

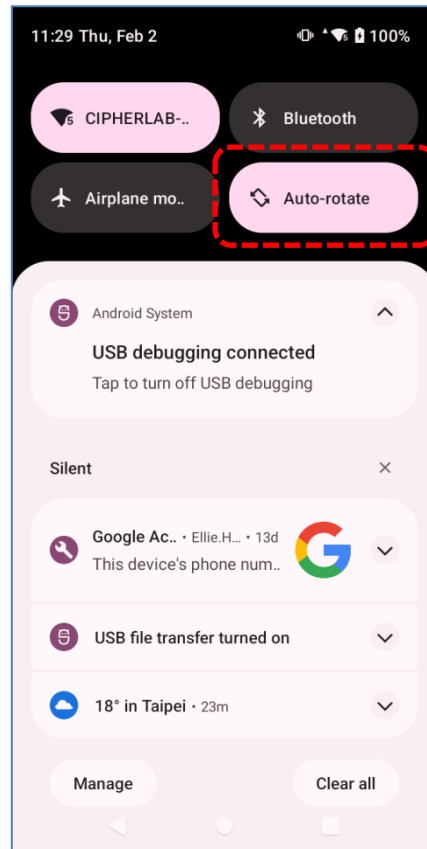
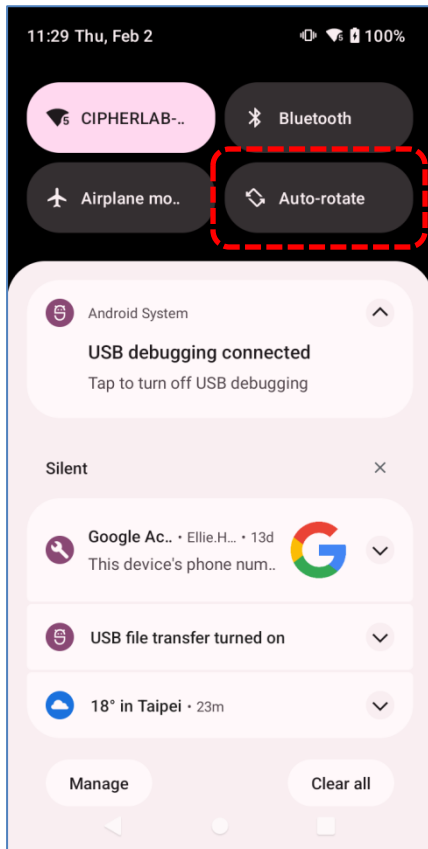


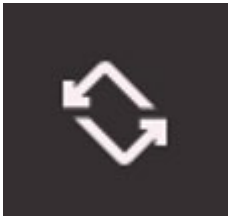

- 2) Switch on or off **Auto-rotate screen**.



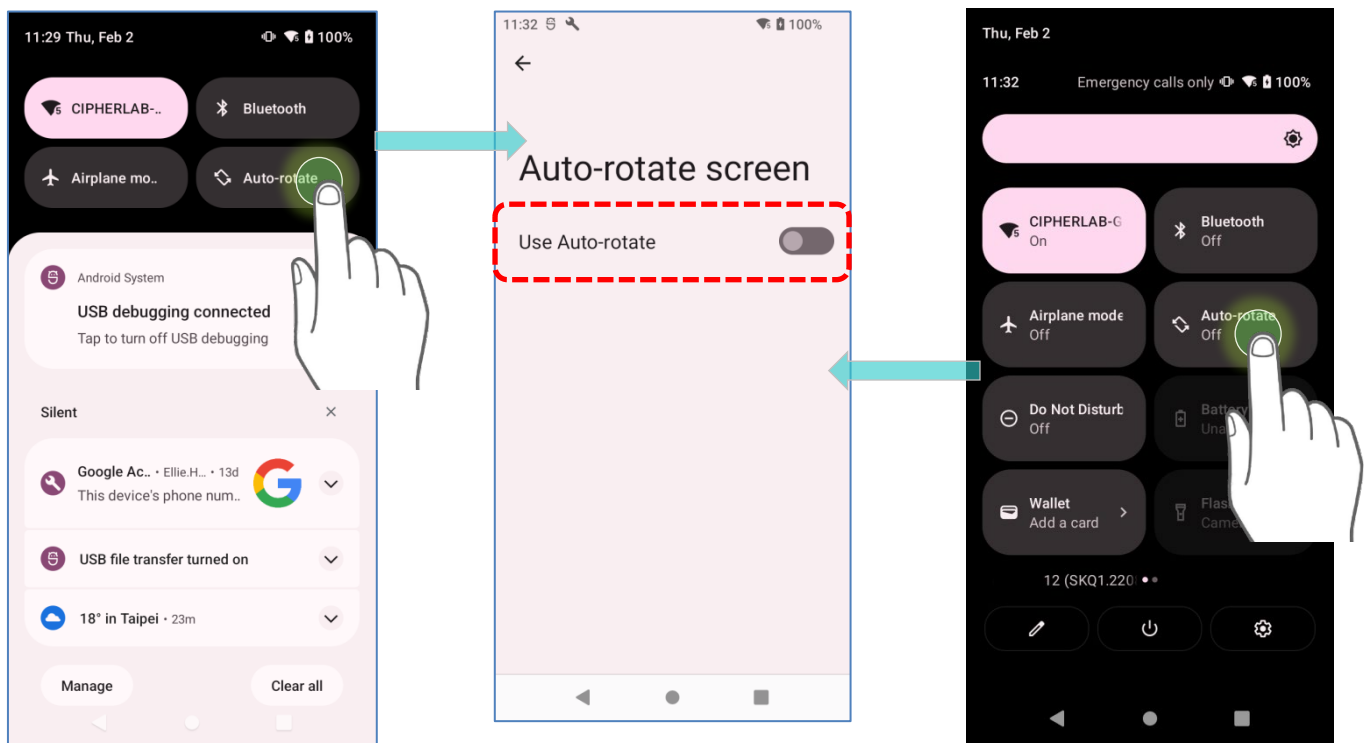
OR

Swipe down from the top of the screen to open **Quick Settings Panel** or **Quick Settings Menu** and tap the **Auto rotate** icon  to enable screen rotation.



Icon	Description
	Auto rotate mode is OFF .
	Auto rotate mode is ON .

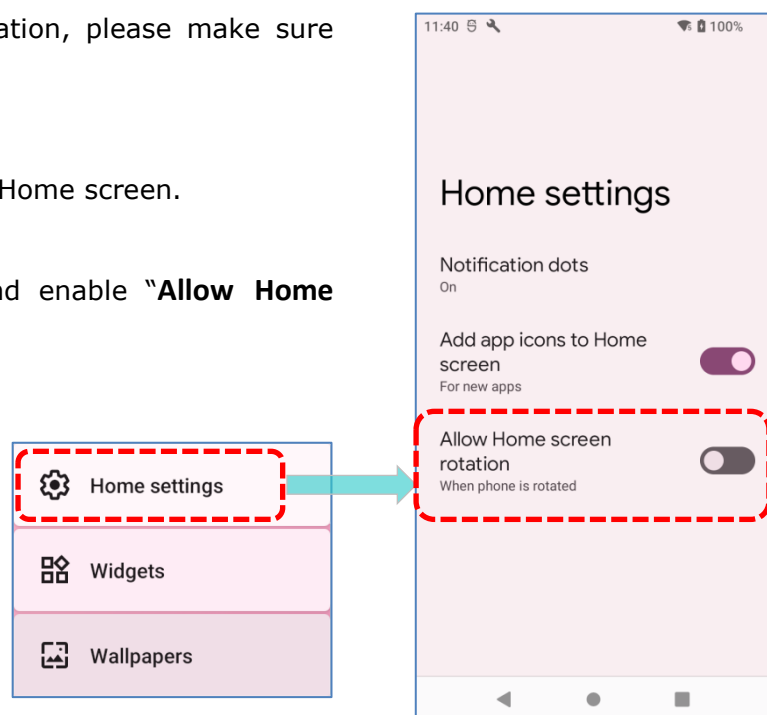
You can enter “**Auto-rotate screen**” page to enable or disable screen rotation by long pressing the **Auto rotate** icon on **Quick Settings Panel** or **Quick Settings Menu**.



HOME SCREEN ROTATION


To enable Home screen rotation, please make sure **Auto Rotation** is enable.

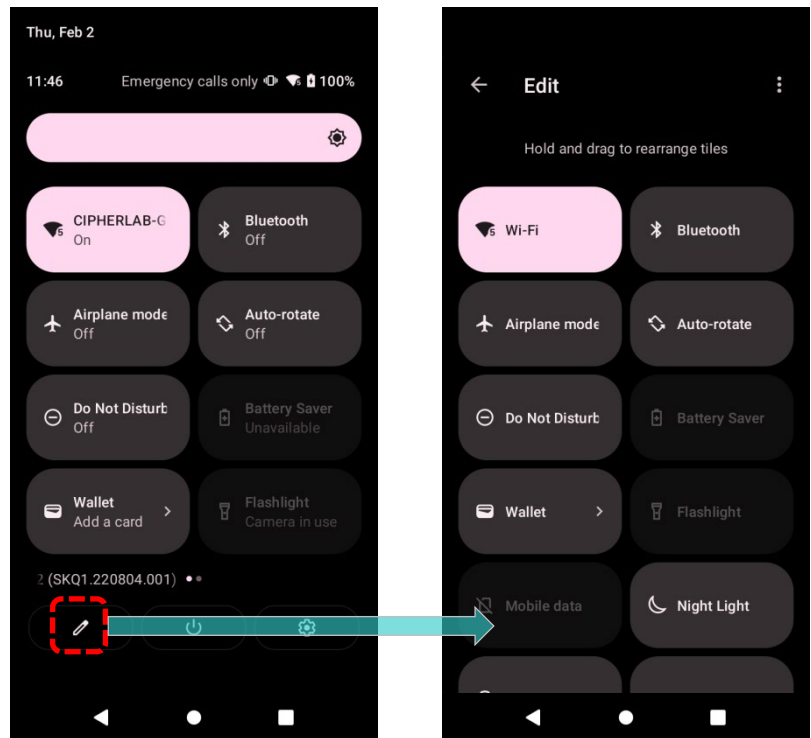
- 1) Press any empty spot on Home screen.
- 2) Tap “**Home Settings**” and enable “**Allow Home screen rotation**”.



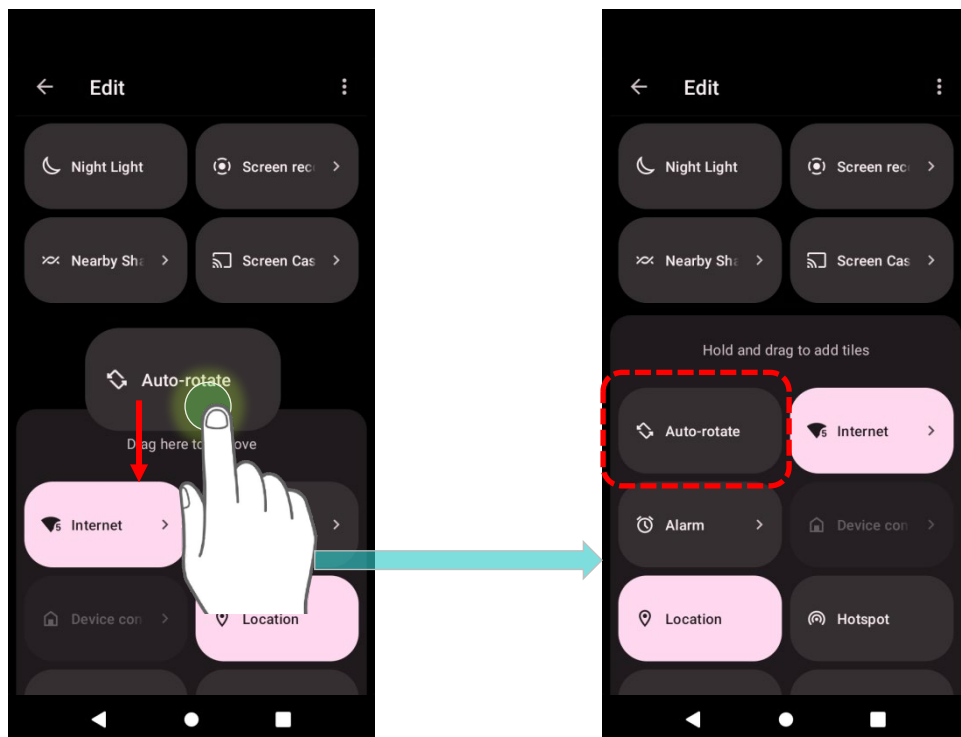
REMOVE AUTO ROTATION FROM QUICK SETTING MENU

You can remove the **Auto rotate** switch icon on **Quick Settings Menu** to minimize the possibility of accidentally turning on the auto-rotation function:

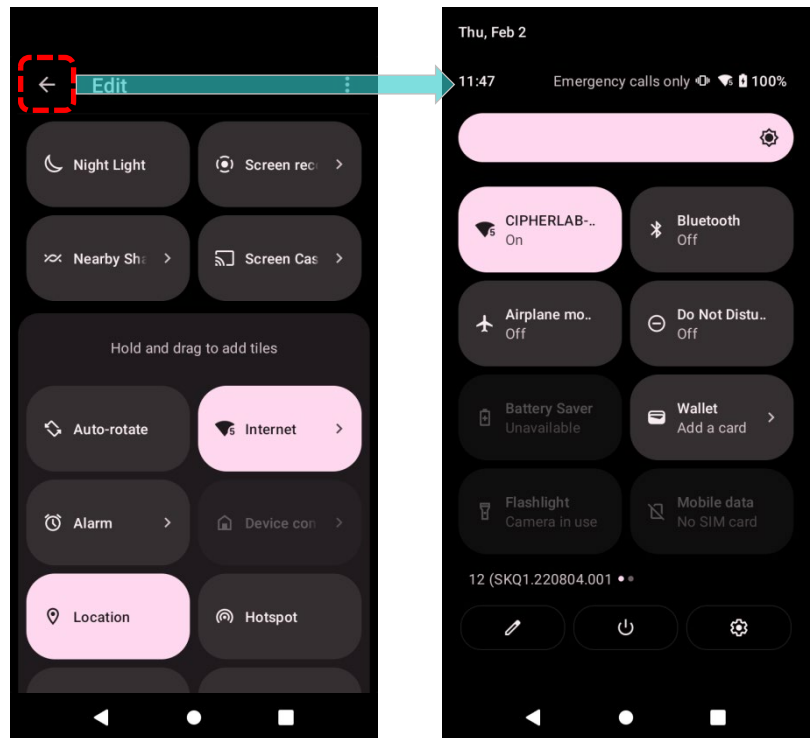
- 1) Swipe down from the top of the screen to open **Quick Settings Menu** and click on **Edit** button  to get into **Edit** page.







- 2) Tap on and hold the **Auto-rotate** icon, and drag it to the “**DRAG HERE TO REMOVE**” area and then release it.



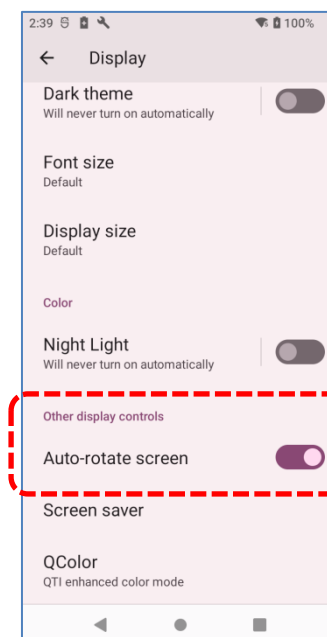
- 3) Return to the **Quick Settings Menu**, the **Auto rotate** switch icon is now hidden.



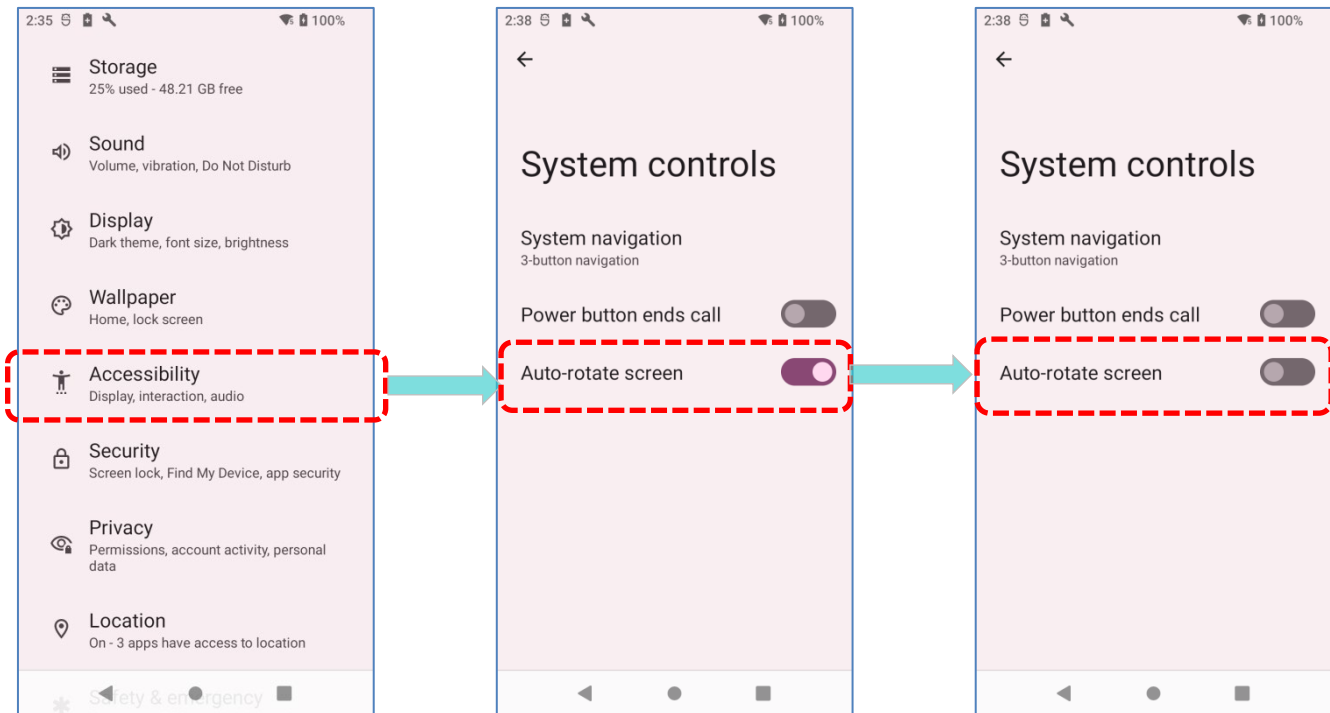
REMOVE AUTO ROTATION FROM DISPLAY SETTINGS

On [App Drawer \(All Apps\)](#) | **Settings**  | **Accessibility**  | **System controls**, switch off **Auto-rotate screen**. By doing so, the auto-rotation option will be hidden in **Settings**  | **Display** .

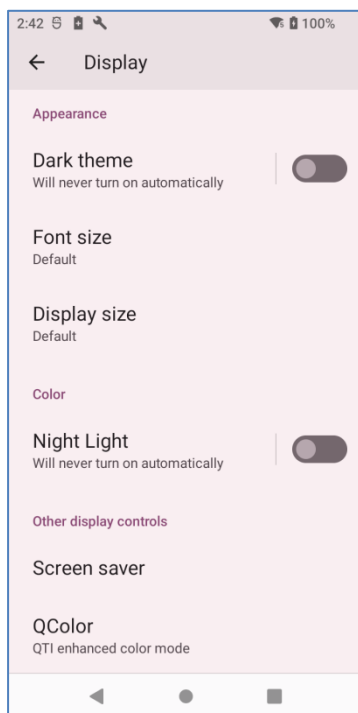
- The original “Display” page where the function “Auto-rotate screen” is listed on.



- Switch off “Auto-rotate screen” on “Accessibility” page.



- Now the function “Auto-rotate screen” is hidden on “Display” page.

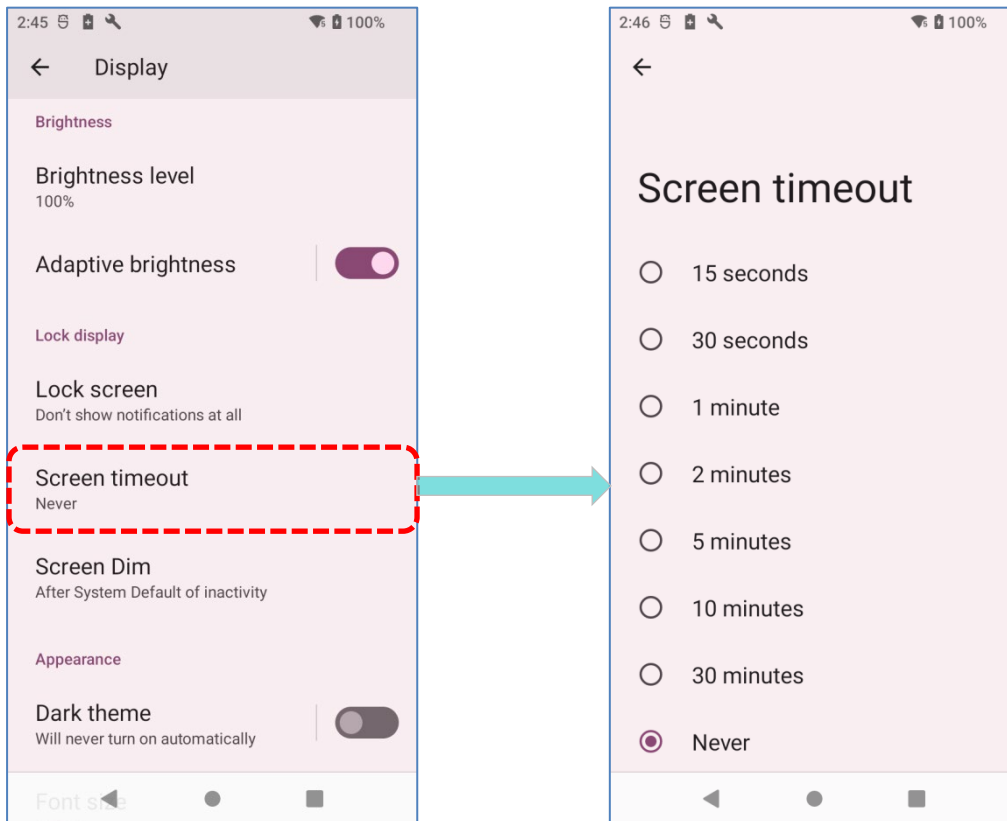


Note: Auto-rotation is not supported for certain applications. Without enabling “[Allow Home Screen Rotation](#)”, auto-rotation is inapplicable in Home Screen and [App Drawer](#) screen.

2.3.3. SCREEN TIMEOUT SETTINGS

Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Display**  | **Screen timeout**.

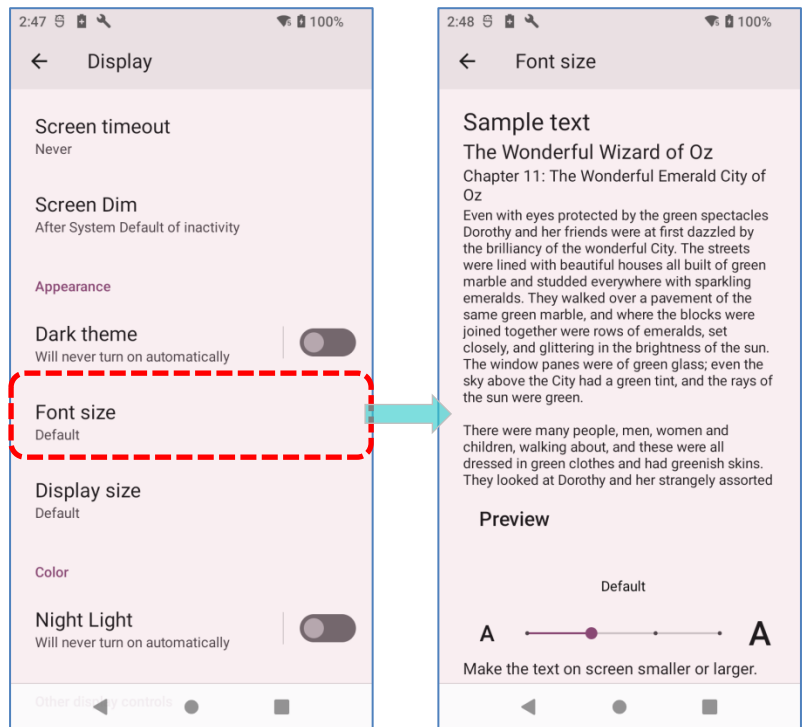
Select the time lapse for screen timeout.



2.3.4. TEXT SIZE & DISPLAY SIZE

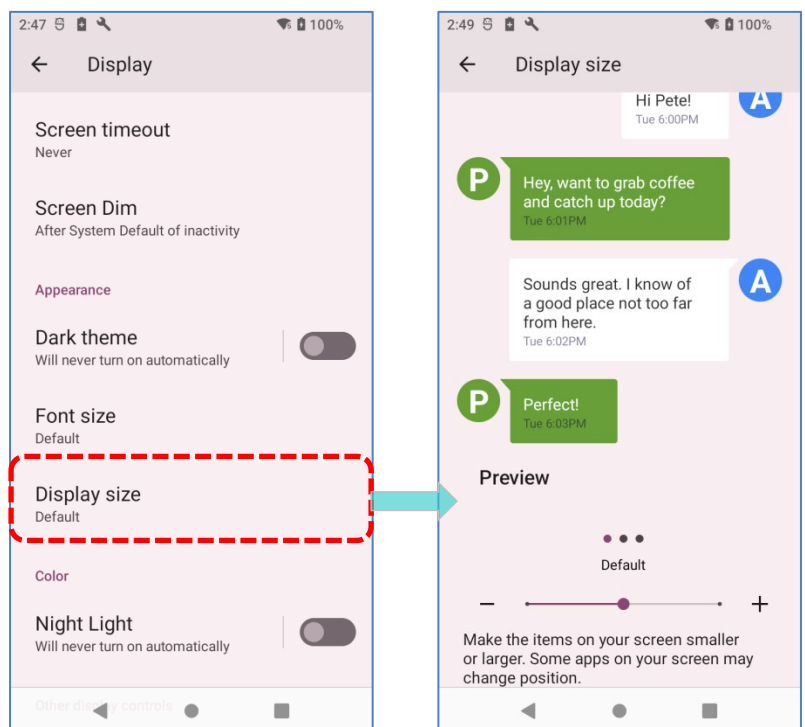
Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Display**  | **Font size.**

Tap the small A icon **A** or the large A icon **A** to select the font size between **Small**, **Default**, **Large** and **Largest**.



Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Display**  | **Display size.**

Tap the plus icon **+** or the minus icon **-** to select the display size as **Small** or **Default** or **Large**.



2.4. NOTIFICATIONS

2.4.1. STATUS LED

Two LED indicators located above the touch screen provide information about charging status, scanner light beam, and scanner **"Good Read"** during data collection.

LED 1 for Power Indication		
Indicator	Status	Description
Charging	Green, solid	Charging complete (more than 95%)
	Red, solid	Charging the mobile computer (0% to 95%)
	Red, blinking	Charging temperature error (lower than 0°C or exceed 40°C)

LED 2 for Reader & System Notification		
Indicator	Status	Description
Barcode decode	Green, flash once	Good read
System notification	White, blinking	New notification

Note: For Scanner decode and Scanner beam LED to function, LED notification must be enabled in the app "ReaderConfig".

2.4.2. AUDIO

The speaker is used to play sounds for events in windows and programs, or play audio files. In addition, it can be programmed for status feedback. In noisy environments, you may consider connecting a Bluetooth headset instead. The mobile computer also supports USB Type-C audio adapter for connecting headsets.

Supported audio file formats include: WAV, MP3, AAC, AAC+, Enhanced AAC+, AU (including ADPCM), Midi, XMF, AMR (NB and WB). Enhanced low delay AAC, FLAC, Vorbis, PCM.

Use the volume buttons on the side of the mobile computer to adjust the system volume.




2.4.3. SOUNDS AND VIBRATION

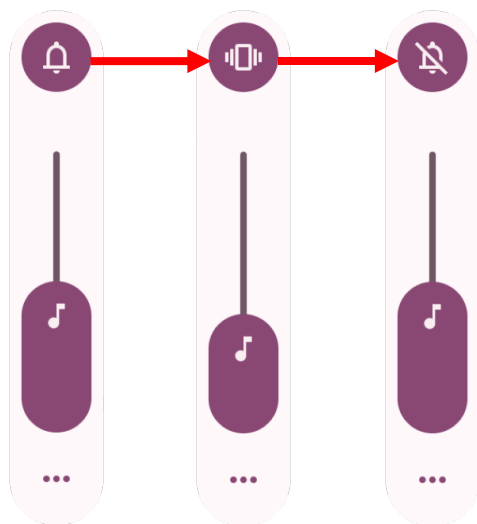
The mobile computer is integrated with a vibrator, which is software programmable for tactile feedback. This can be helpful when working in noisy environments.




You may also set the mobile computer to vibrate only, in which all system sounds will be muted and replaced by the vibrator.


QUICK SOUND MENU

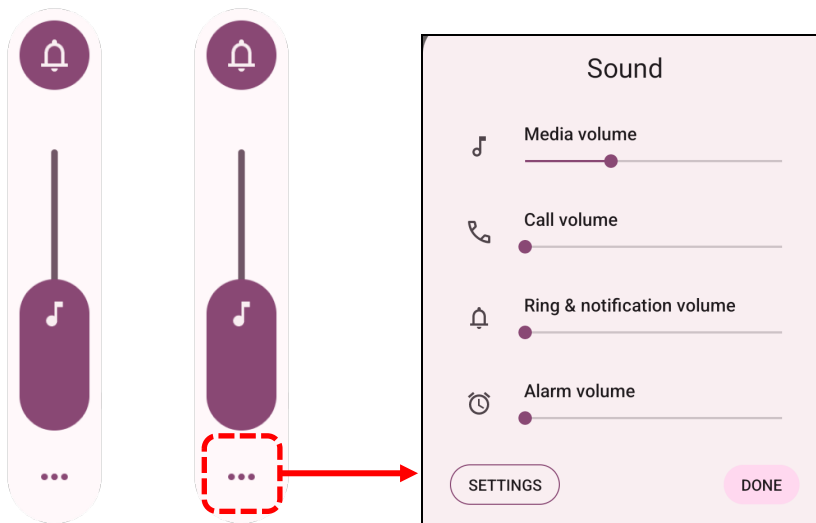
On any screen, press down **Volume Up** or **Volume Down** key to open quick sound menu.

Tap on the icon  or  or  to switch between ringing, vibration, and mute.



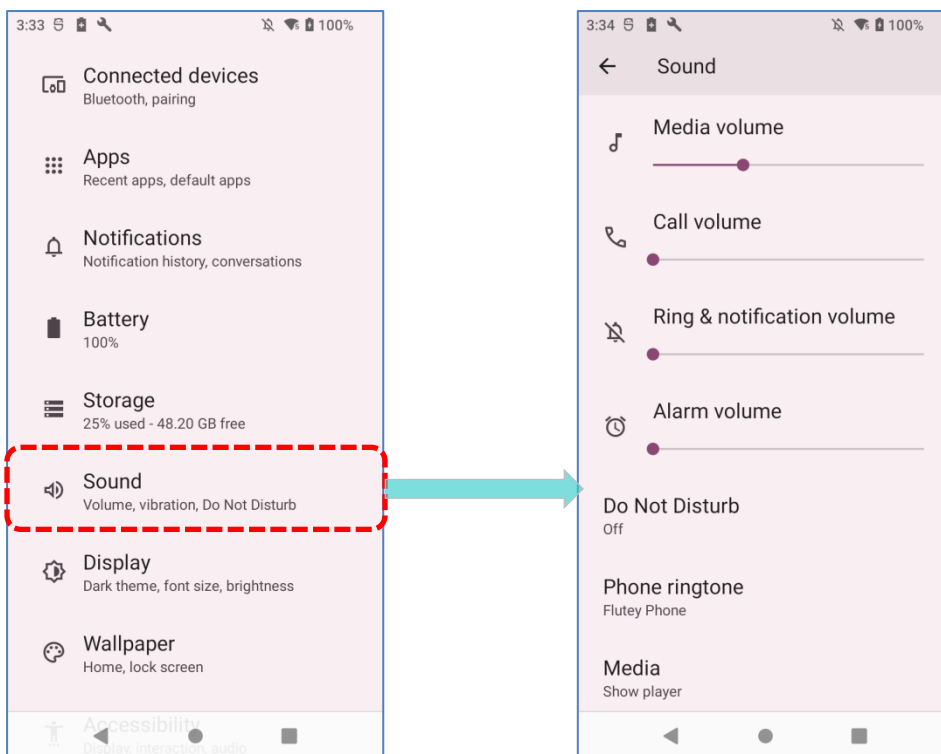
Item	Description
	Calls and notifications will ring.
	Calls and notifications will vibrate.
	Calls and notifications will be muted.

The media volume can be adjusted by pressing the **Volume Up** or **Volume Down** key, or dragging the slider on quick sound menu. Tap on the settings icon  will open the pop-up volume panel; tap on **"SETTINGS"** will directly enter the [Sound Settings](#) page.



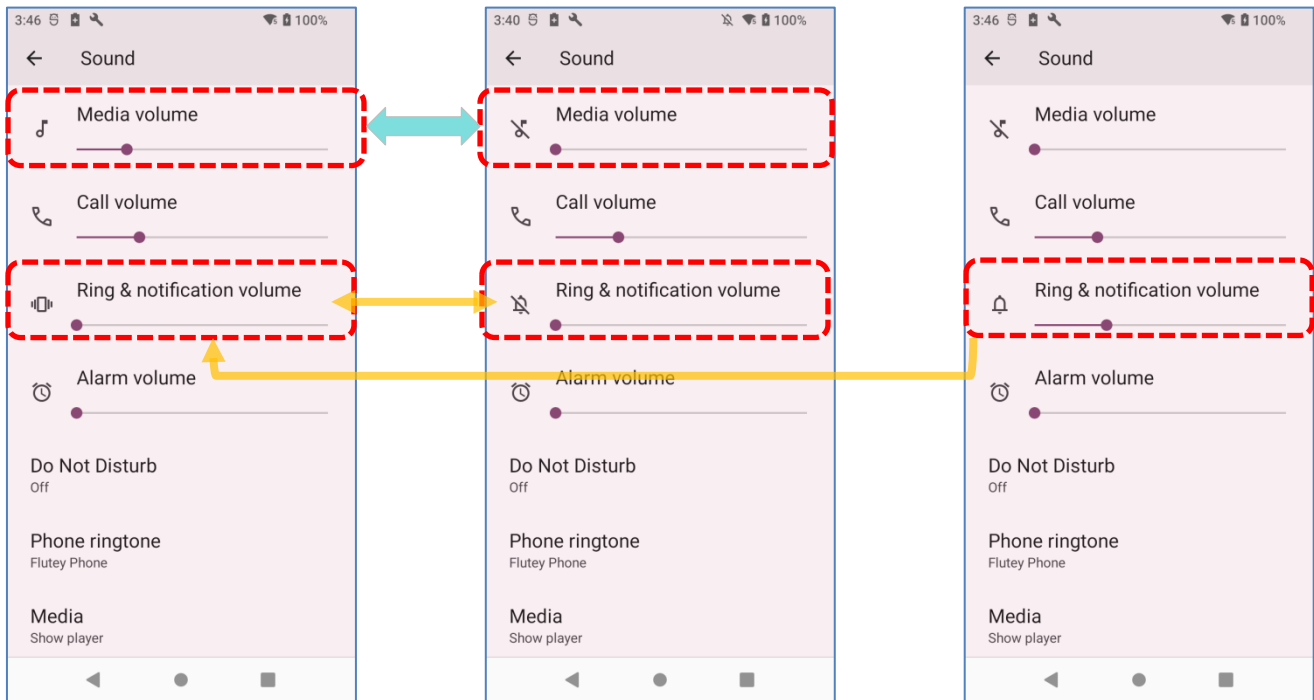
SOUND SETTINGS

Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Sound**  for more sound settings.

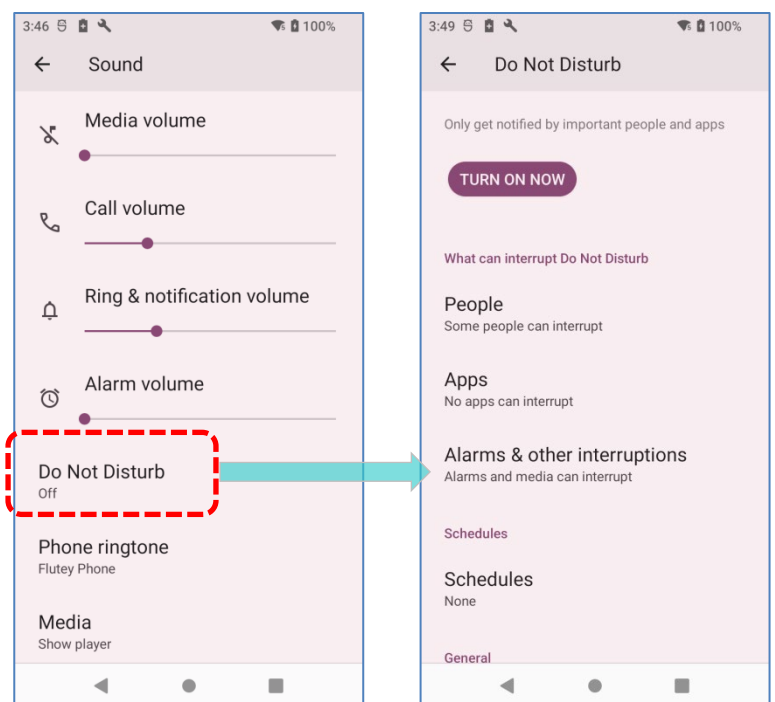


On “**Sound**” settings page, you can:

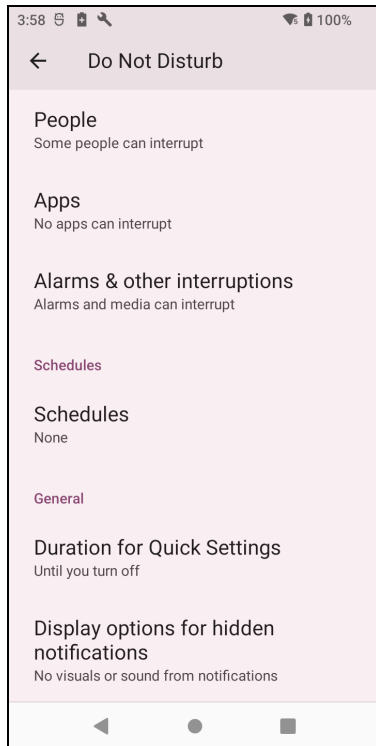
- Adjust the volume for **media** 🎵, **call** 📞, **ring** 🔔, and **alarm** ⌚ by dragging the sliders.



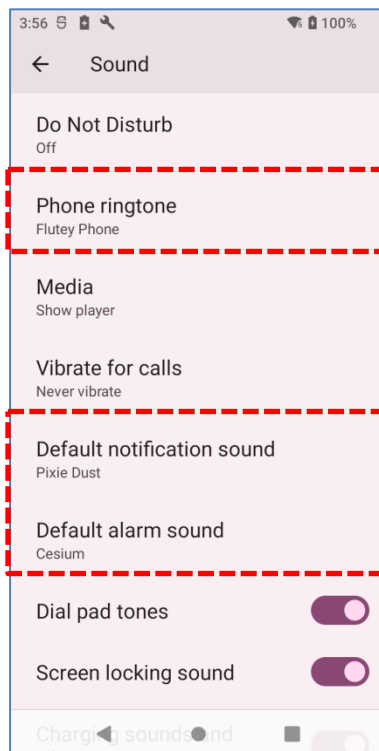
- The media icon turns to be 🚫 if media volume is off.
- The ring icons turns from 🔔 to 🚫 to indicates ring volume is off and vibration is on, while 🚫 means both ring volume and vibration are off.
- Enter “**Do Not Distrub**” for its detailed settings.



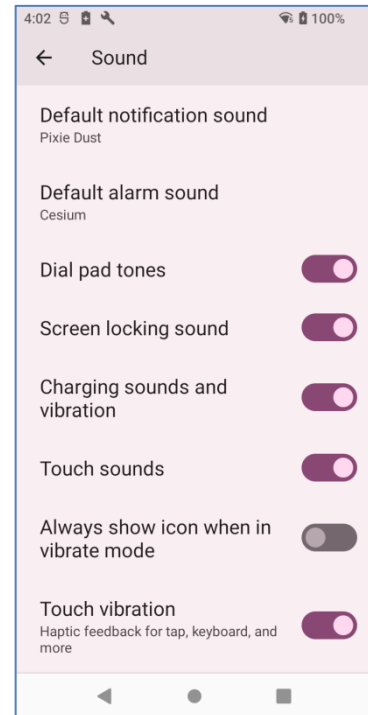
- Set the shortcut to prevent ringing.



- Select the sound for "Phone Ringtone", "Default notification sound" and "Default alarm sound".

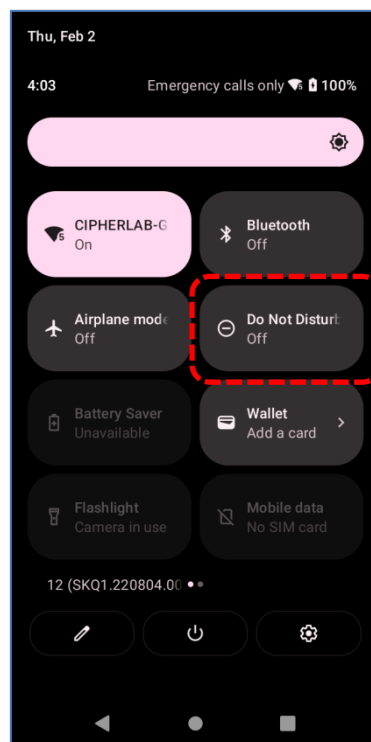
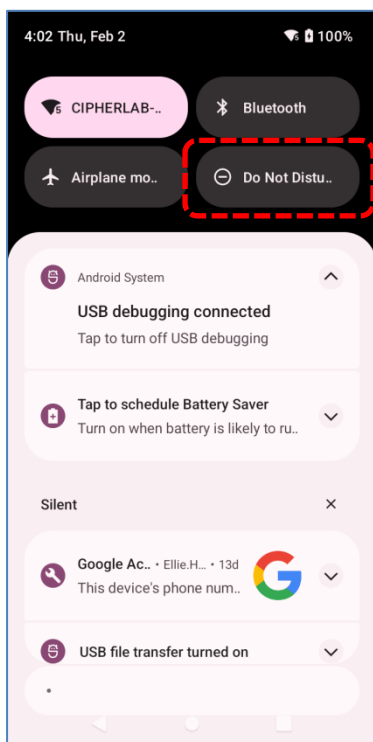


- Turn on or off the switch of the items under “**OTHER SOUNDS AND VIBRATIONS**”.





DISABLE UNWANTED NOTIFICATIONS WITH “DO NOT DISTURB”

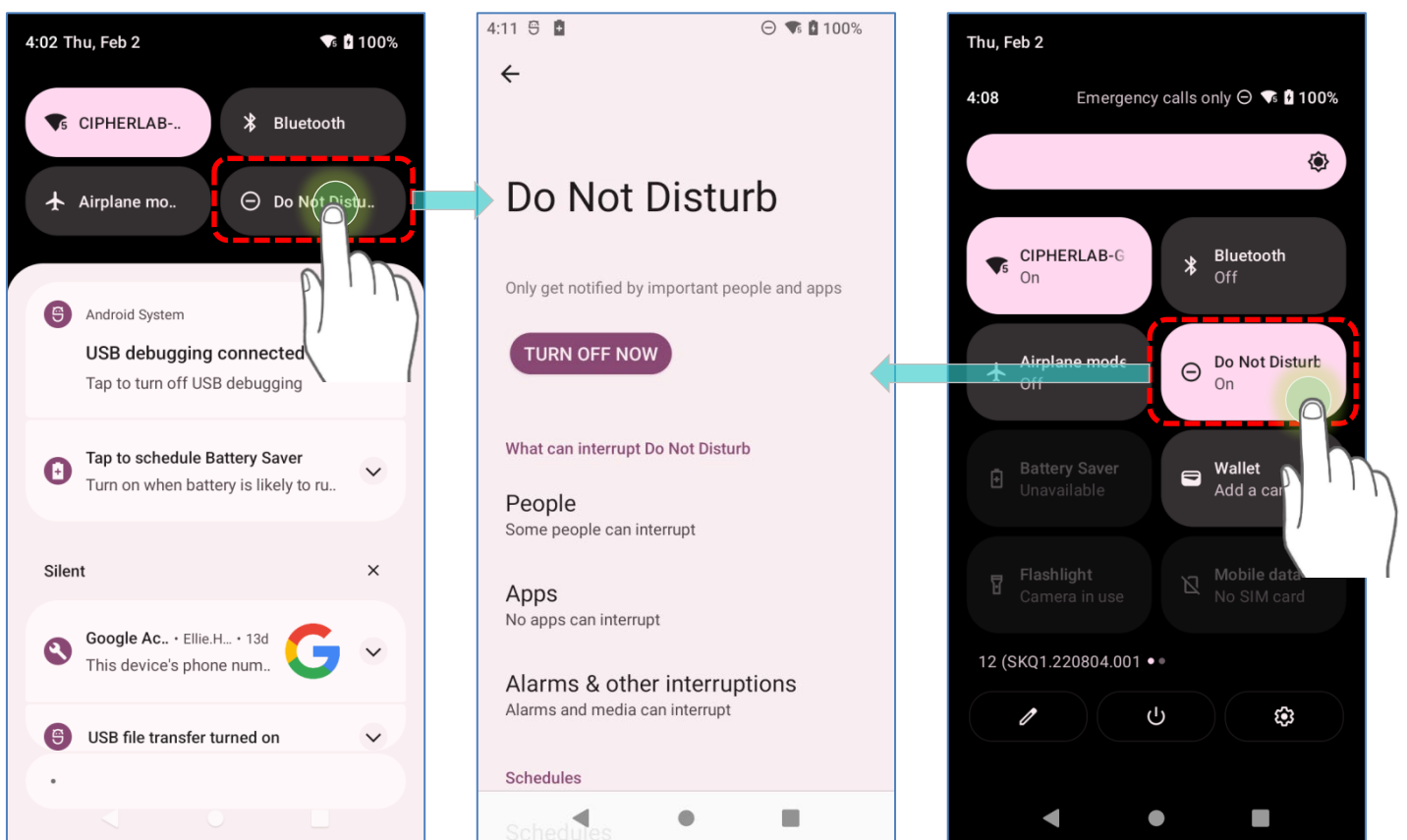
You can temporarily disable specific notifications (vibration or sound) using “**Do Not Disturb**” in **Quick Settings Panel / Quick Settings Menu**. What’s more, you can schedule the duration of the disabled status so that the notifications will switch to enabled state automatically based on your arrangement.



Swipe down from the status bar to open **Quick Settings Panel** or **Quick Settings Menu**, tap on **"Do not disturb"** to enable this feature and make further adjustment.

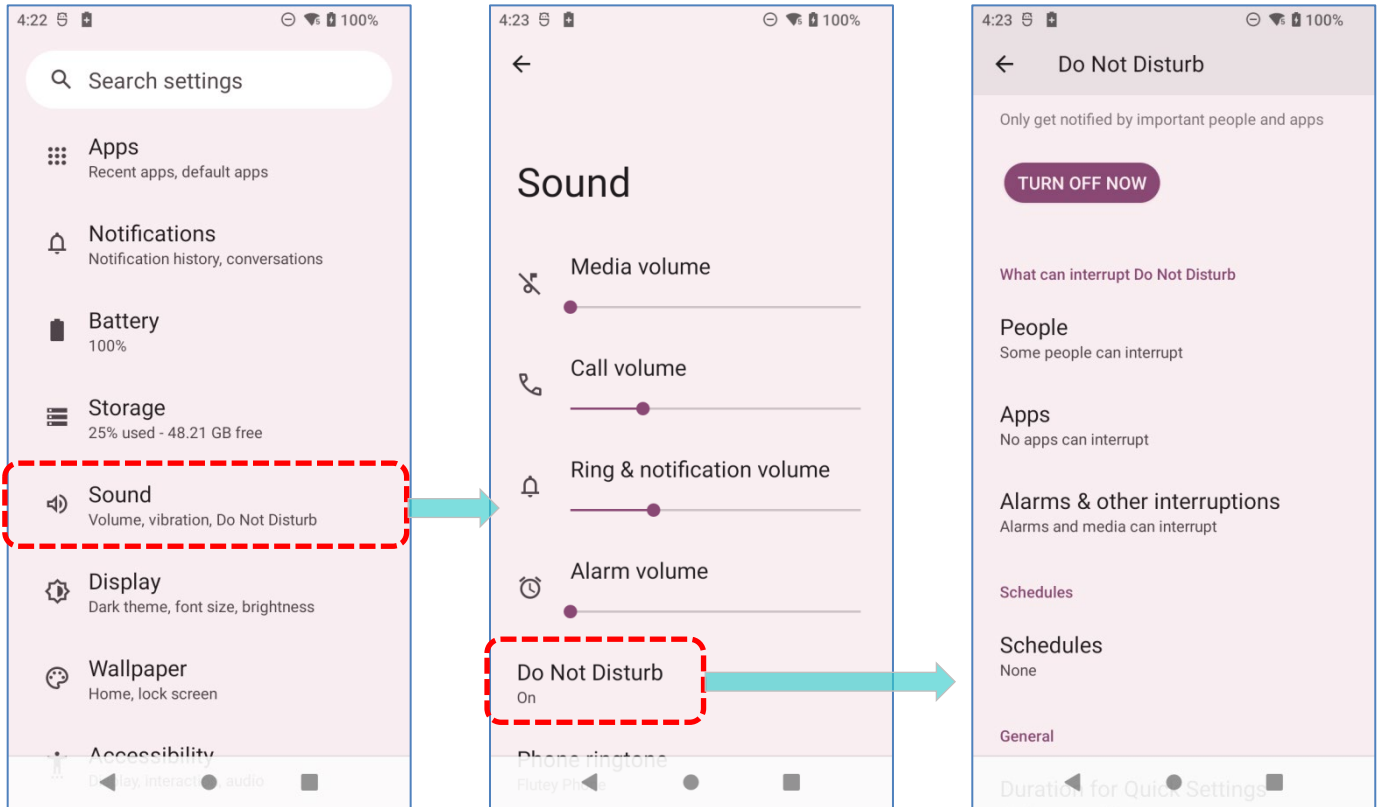
Icon	Description
	DND mode is OFF .
	DND mode is ON .

You can enter **"Do Not Disturb"** page for further settings by long pressing the **Do Not Disturb** icon on **Quick Settings Panel** or **Quick Settings Menu**.



OR

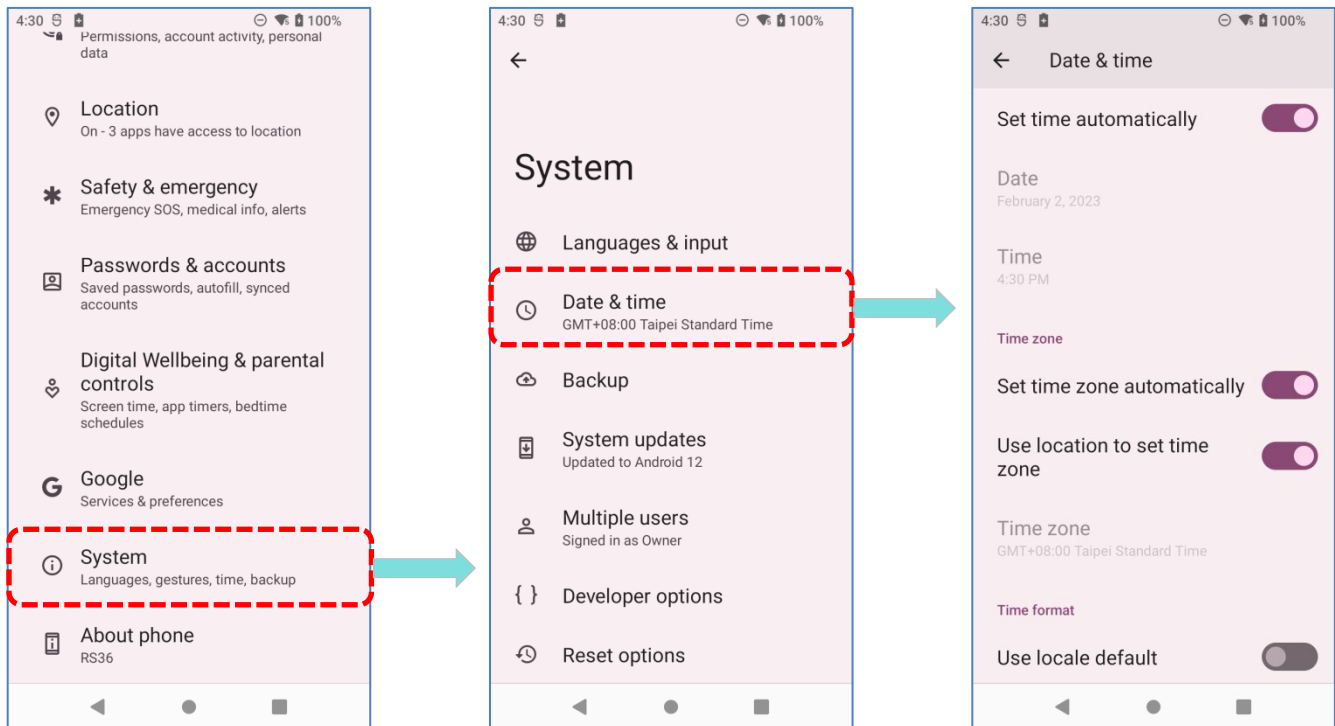
Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Sound**  | **Do Not Disturb**



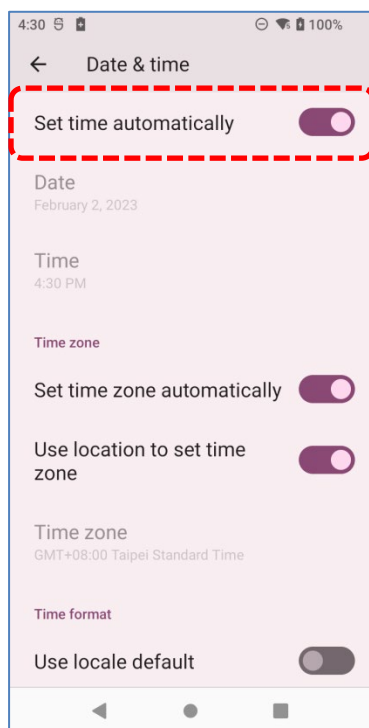
2.5. DATE AND TIME

By default, the mobile computer automatically synchronizes the date and time to the WWAN network (if connected). To set the date and time manually:

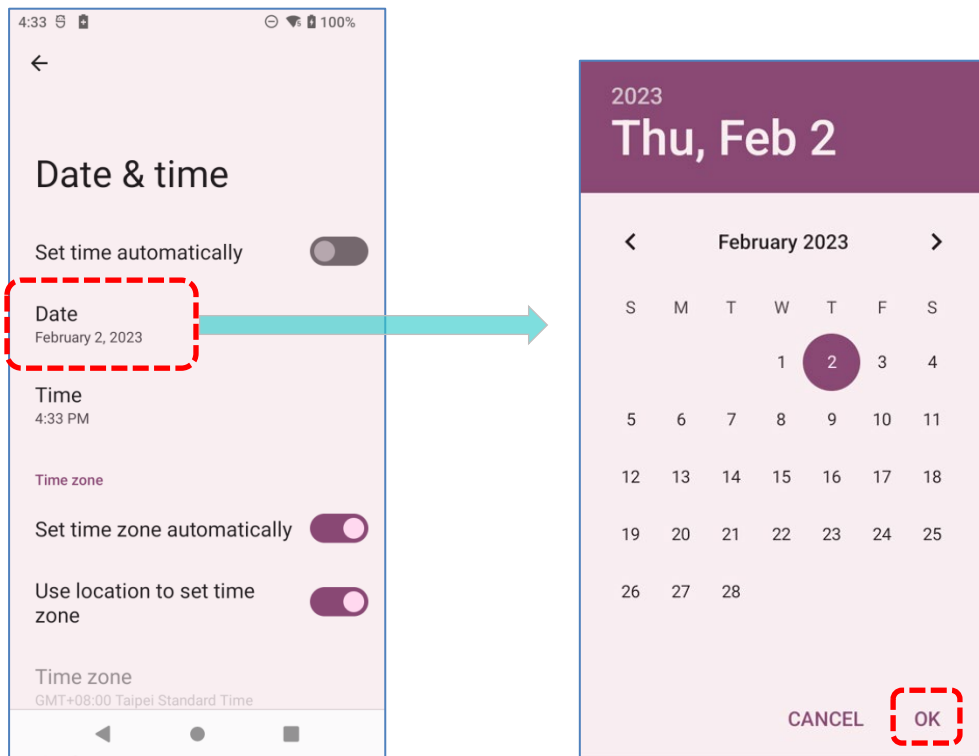
- 1) Go to [App Drawer \(All Apps\)](#) | **Settings**  | **System**  | **Date & time** 



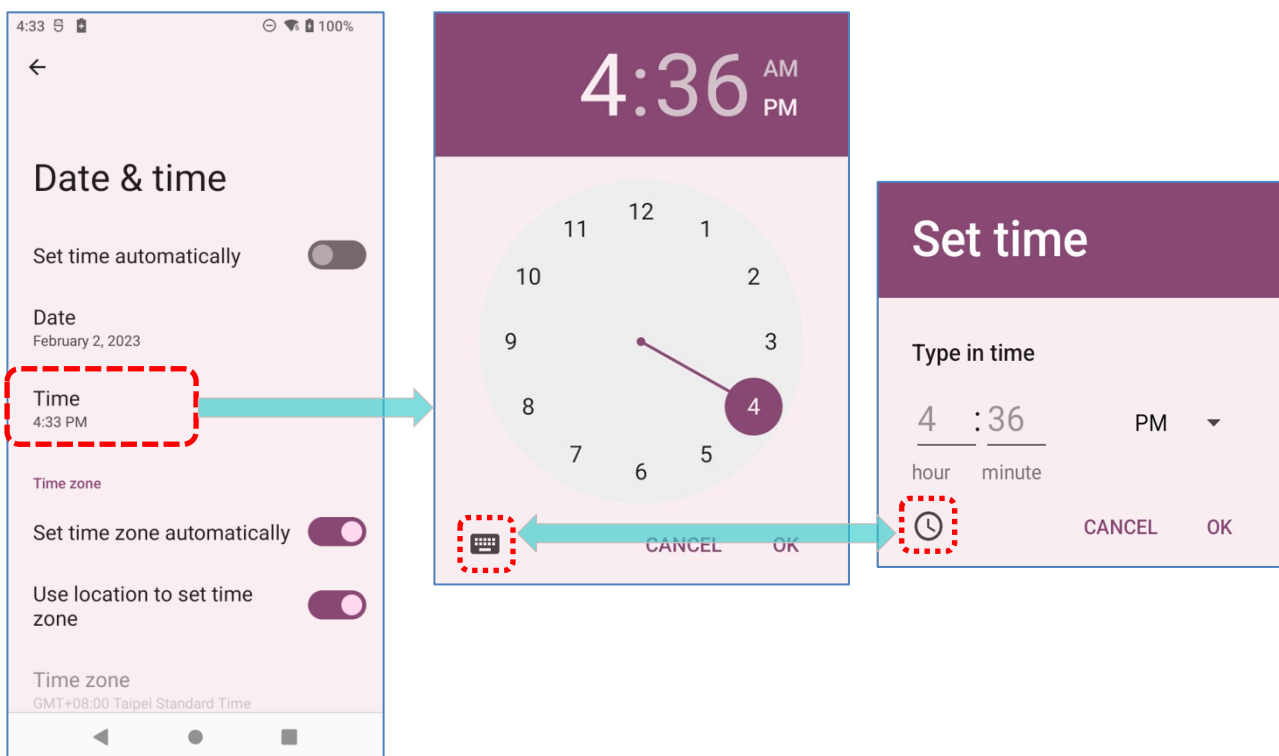
- 2) Tap to turn off **Set time automatically** to disable using network-provided time.



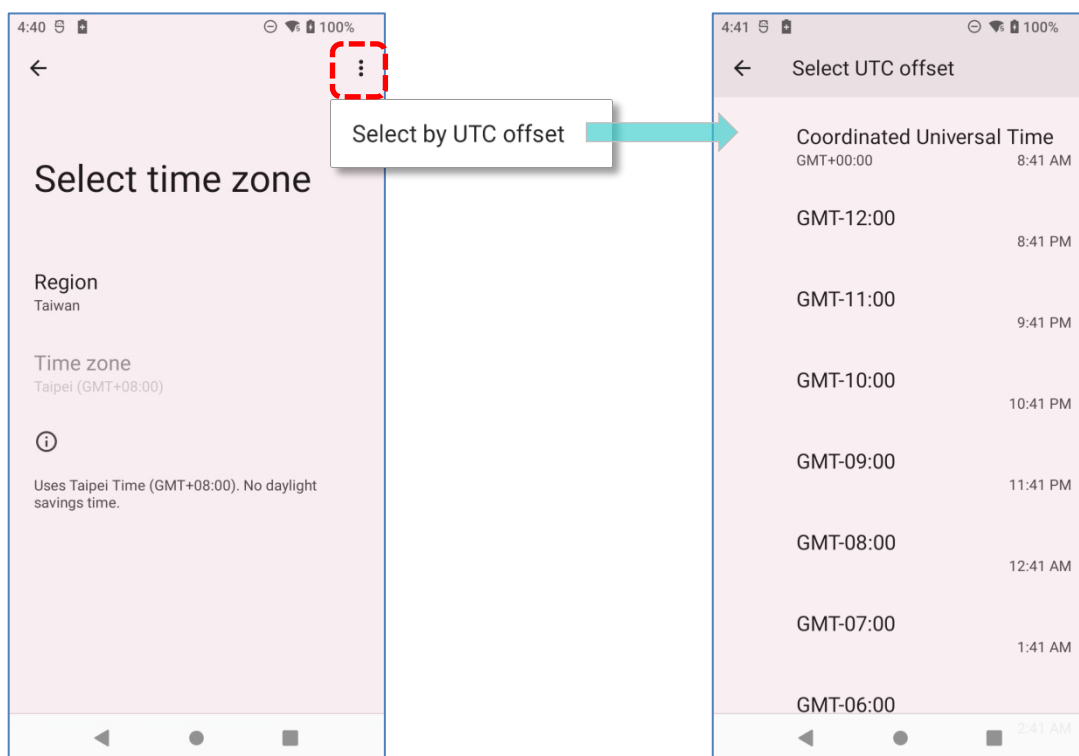
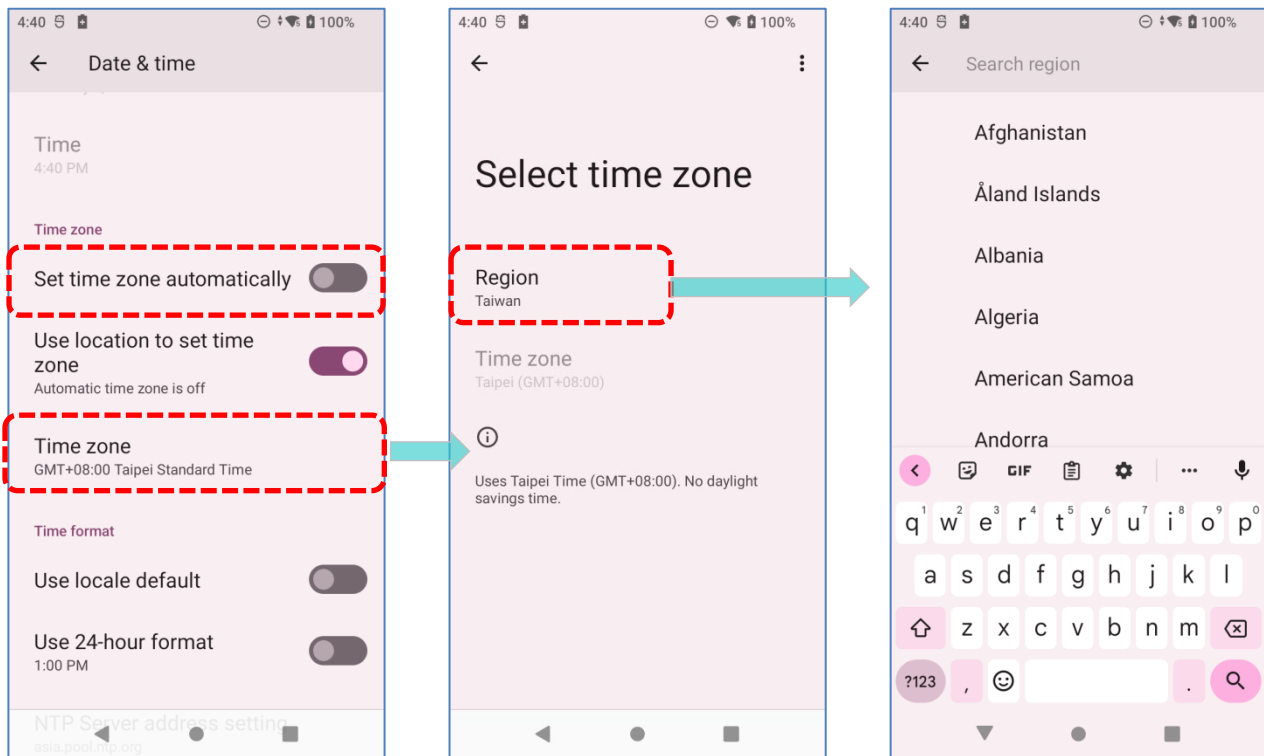
3) Tap **Date** to select the correct month, date and year. Tap **OK** to save.



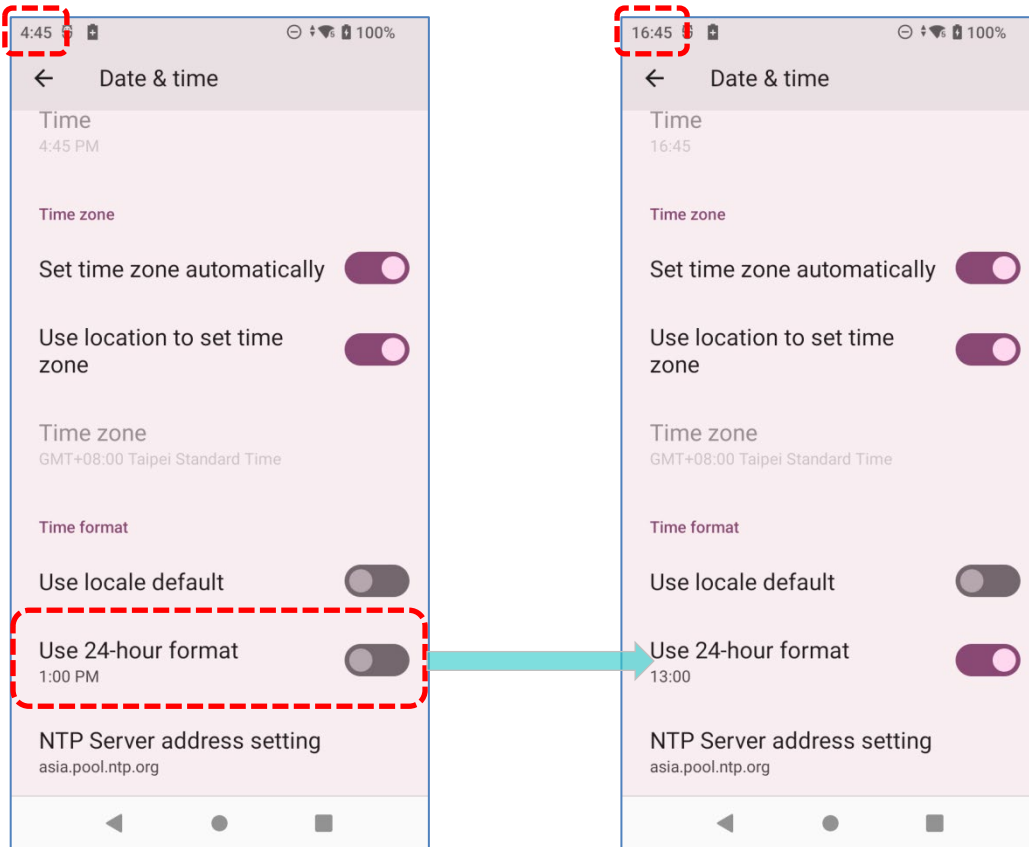
4) Tap **Time** to set the correct time. Tap **OK** to save.



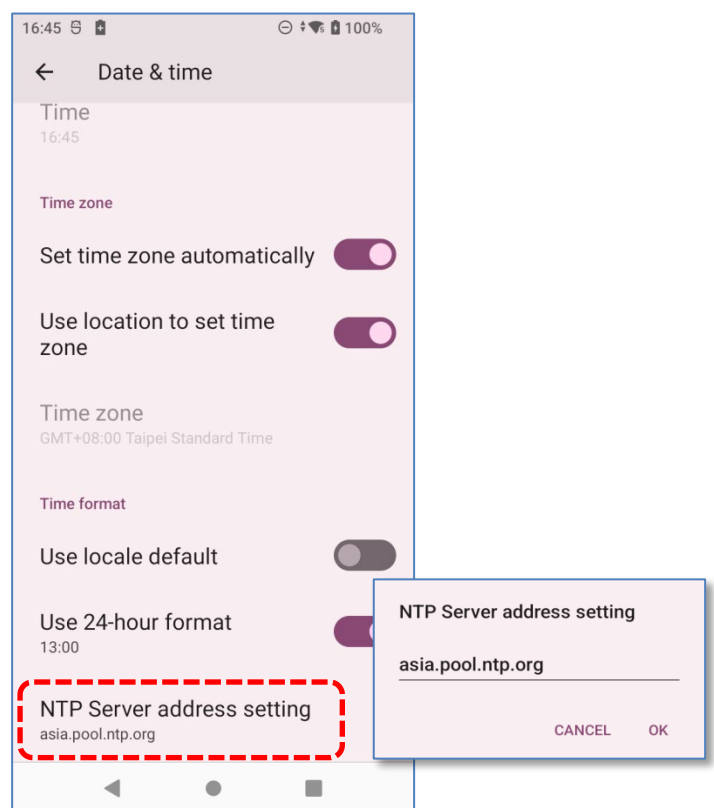
- 5) Disable **Set time zone automatically** and then tap **Time zone** to select the correct time zone from the list.






- 6) Disable “**Use locale default**” and tap “**Use 24-hour format**” to switch on or off to change the displayed time.

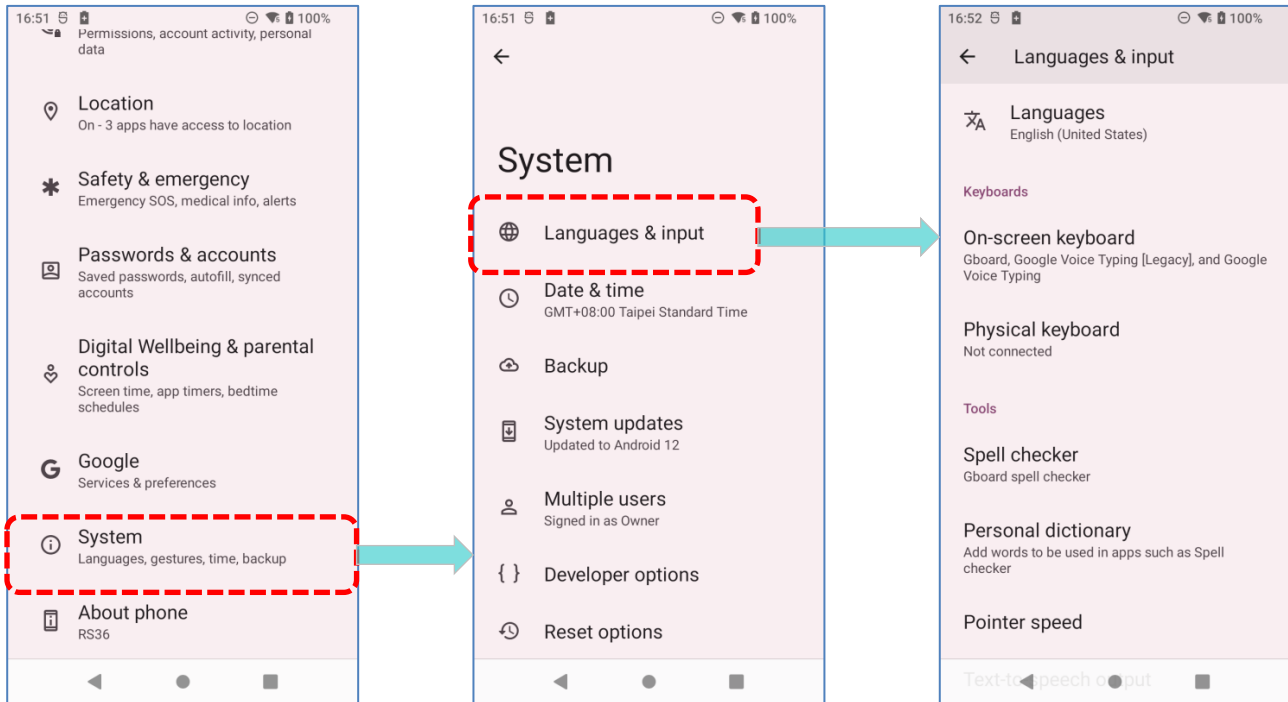


- 7) Tap “**NTP Server**” to input NTP server address and tap **OK** to save.



2.6. LANGUAGE & KEYBOARD INPUT

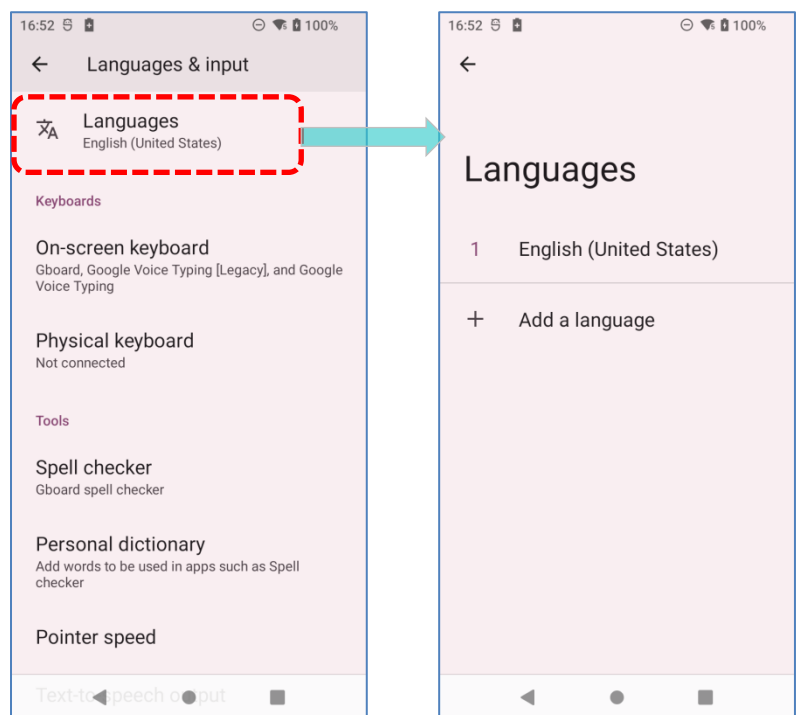
Tap [App Drawer \(All Apps\)](#) | **Settings**  | **System**  | **Language & input**  to change the system language, default keyboard type, and configure keyboard input and speech settings.



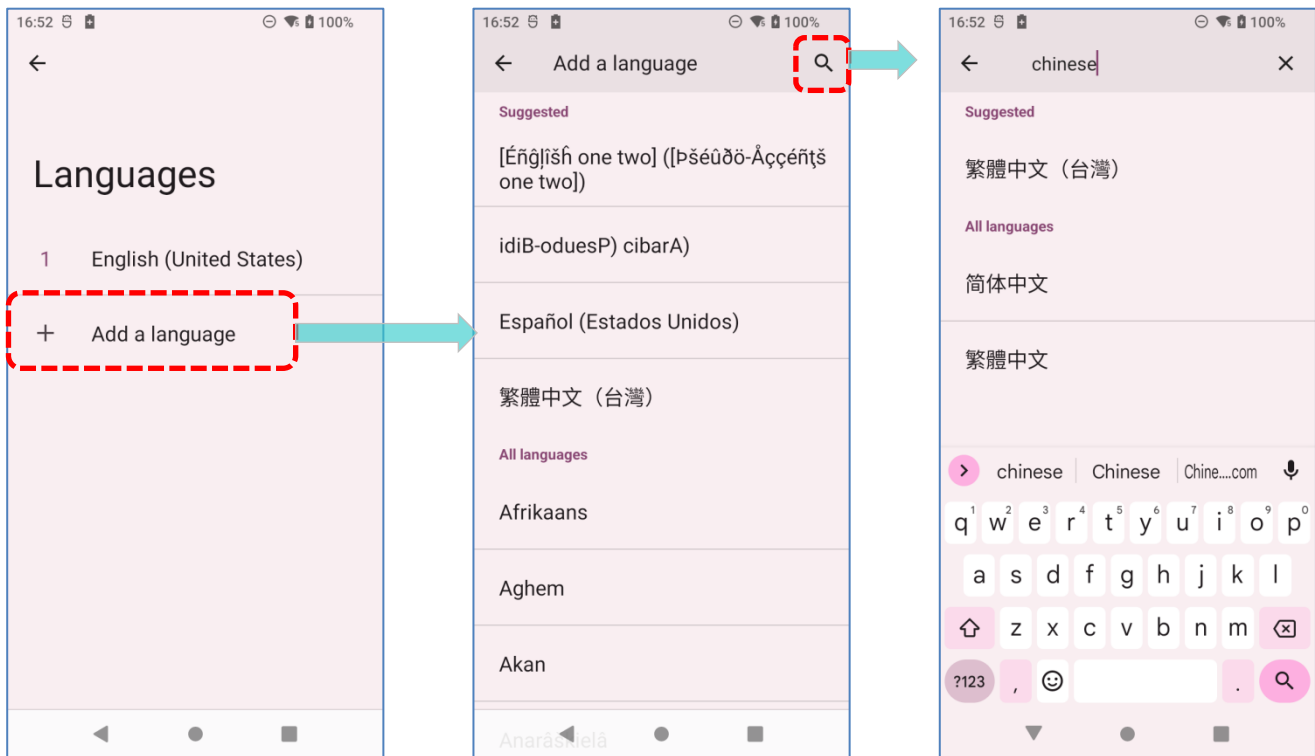
2.6.1. CHANGE DISPLAY LANGUAGE

To change display language:

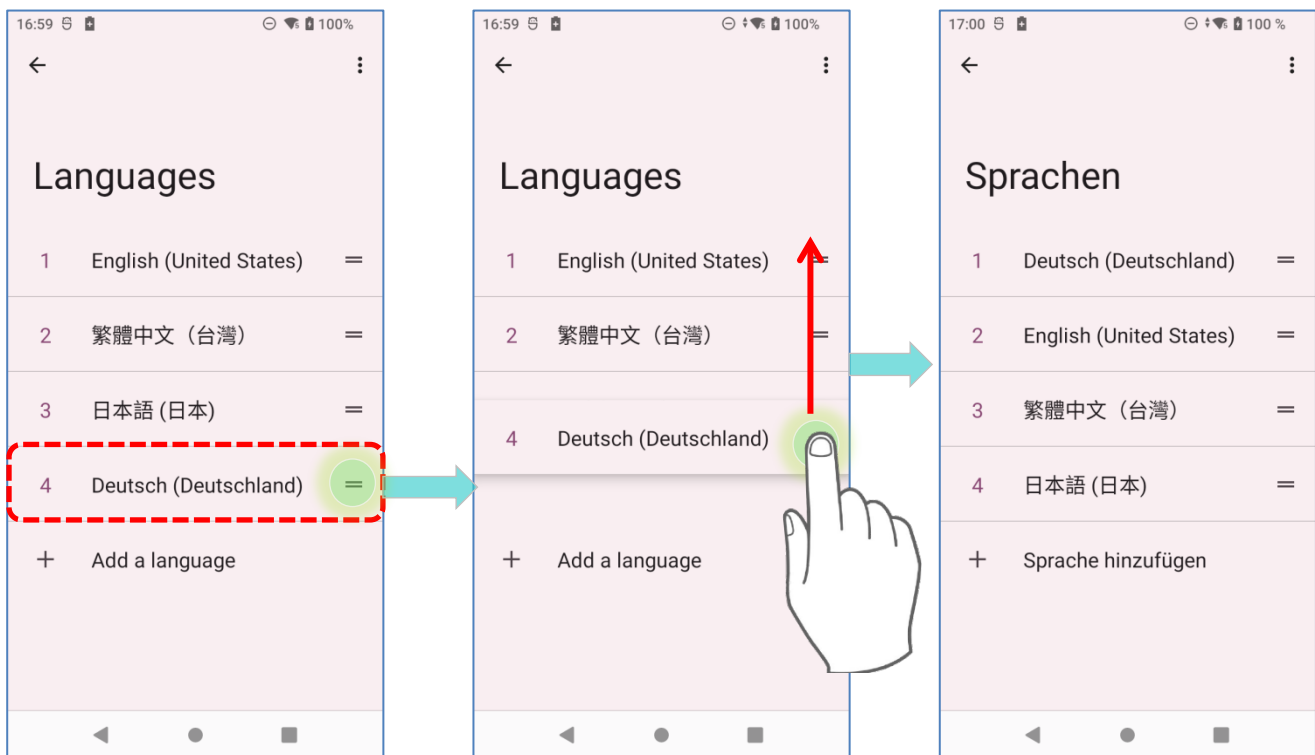
- 1) On **Language & input** screen, tap on **Language** to get into "Language preference" page.



2) Click “Add a language” to select your desired system language.




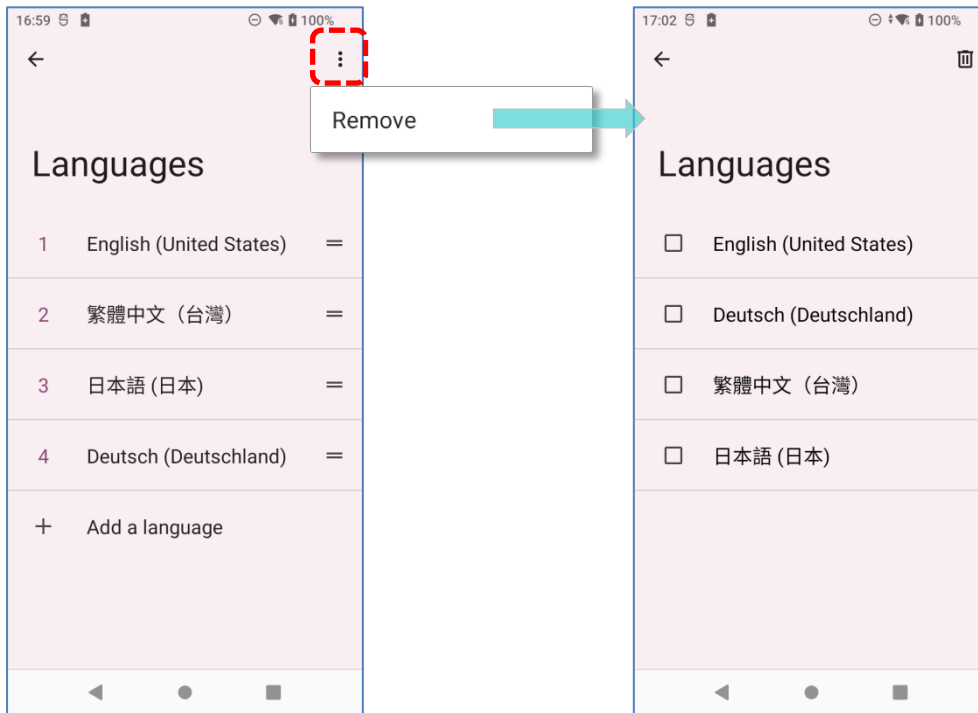
3) Press and hold your desired system language to change its sorting order to the 1st by dragging. Once it is released, the new language setting will immediately be applied.



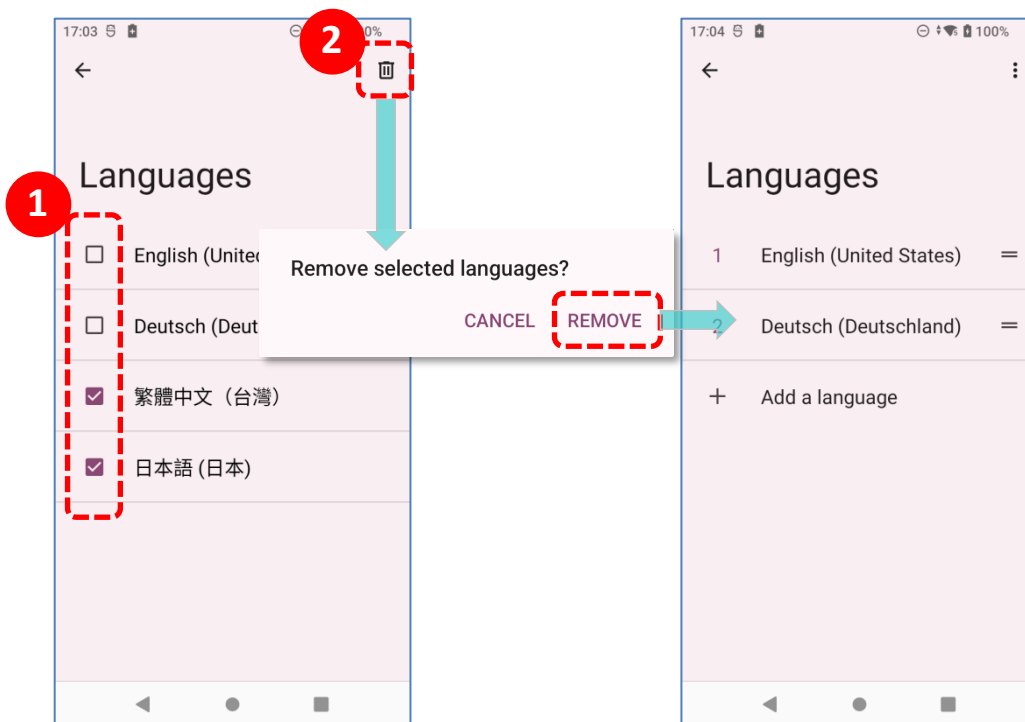
DELETE LANGUAGE

To delete language(s):

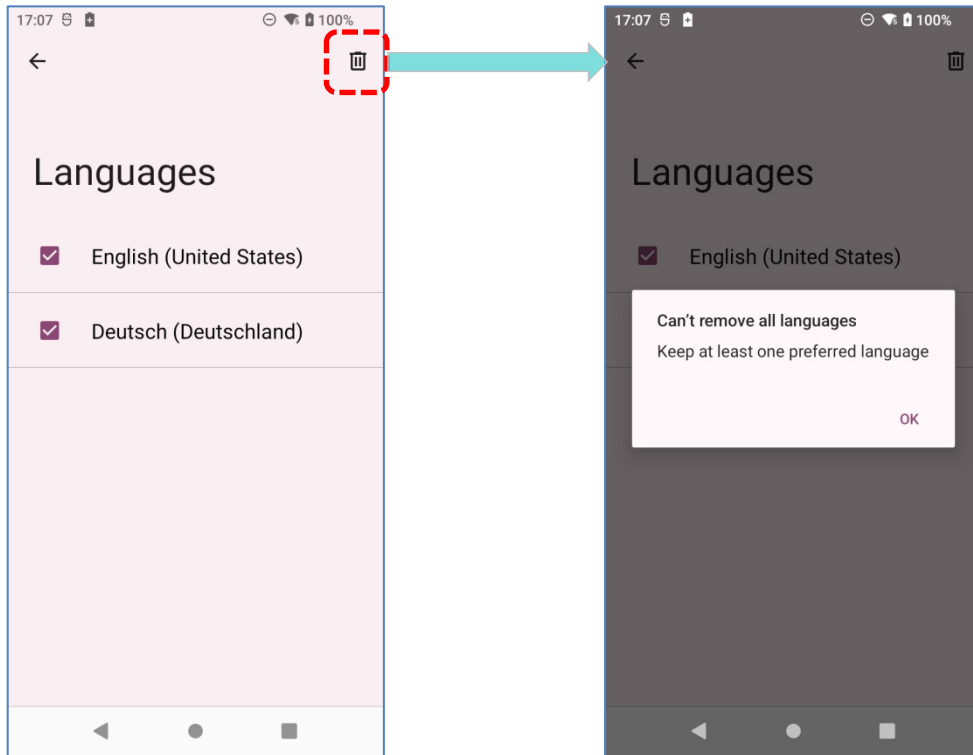
- 1) Tap on the more button  and then select **"Remove"** option.



- 2) Select the language to delete. Please note that the display language will be changed once it is deleted.

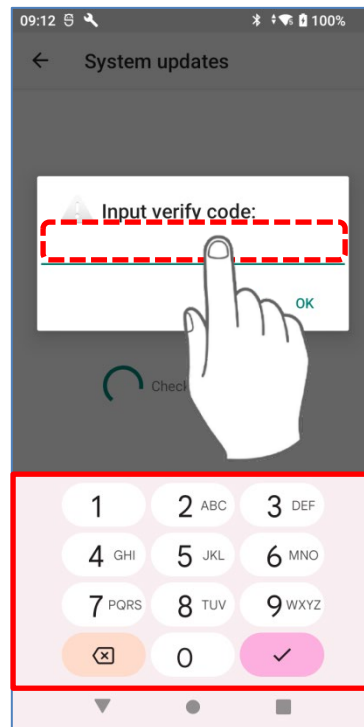
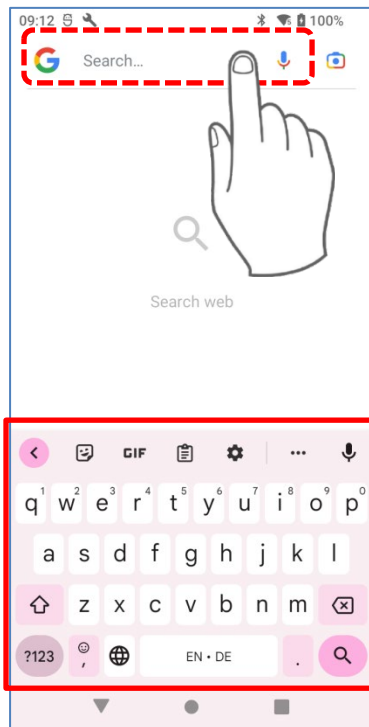


3) You have to leave at least one language.






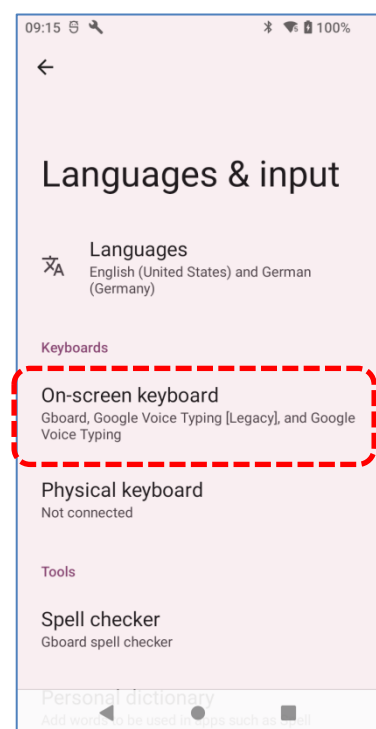
2.6.2. ON-SCREEN KEYBOARD

Tap a text input field to automatically open an on-screen keyboard. The virtual keyboard will vary depending on the data type (text or numbers) this field requires.

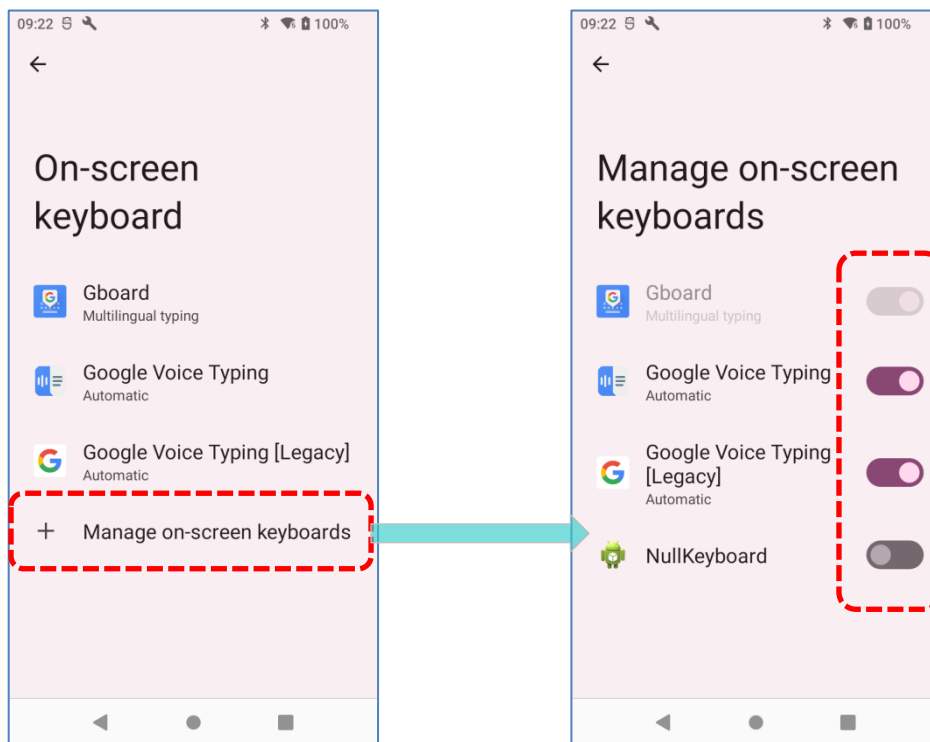


SELECT KEYBOARD (INPUT METHOD)

- 1) Go to [App Drawer \(All Apps\)](#) | **Settings**  | **System**  | **Language & input**  , and then tap **On-screen Keyboard**.

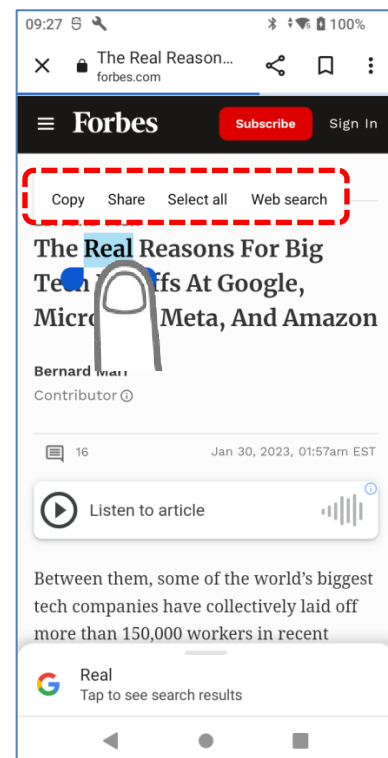


- 2) On **On-screen Keyboard** screen, manage the installed keyboards by tapping “**Manage on-screen keyboard**” and switch on/off the input methods you need.



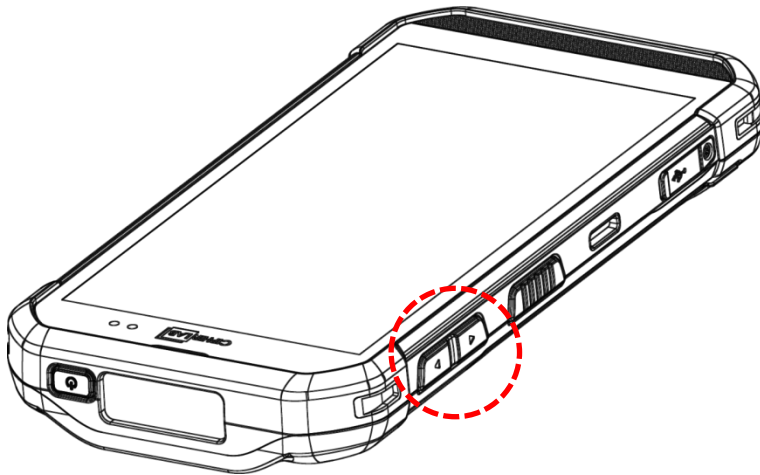
EDIT TEXT

Tap and hold text on the screen to enable a text editing menu for selecting all text, or copying and pasting text within or across applications. Some applications may use different ways to select or edit text.



2.7. SOUND AND VOLUME

Use the volume buttons on the left side of the mobile computer to adjust system and ringer volume.



2.8. DATA CAPTURE

2.8.1. BARCODE READER

A selection of scan engines is available for delivering flexibility to meet different requirements. Depending on the scan engine integrated, the mobile computer is capable of scanning barcodes of a number of symbologies that are enabled by default while running the ReaderConfig application. You won't be able to scan a specific barcode symbology which is not enabled. Run ReaderConfig.exe to enable/disable barcode symbologies.

2.8.2. DIGITAL CAMERA

An integrated autofocus 13 megapixels rear camera with LED flash in the mobile computer is specifically designed for collecting image data. You may use the image capture utility to turn on the camera and capture images. By default, the images taken by this camera application are saved as JPG files in the **DCIM** folder in the device's primary storage.

Chapter 3

BASIC OPERATION

This chapter describes the basic skills to work with the RS36 mobile computer, for instance how to operate the home screen, check system status and manage notifications. The add-on utilities for applications regarding data collection, processing, and transmission are introduced in the following chapters.

IN THIS CHAPTER


3.1. Home Screen.....	105
3.2. Navigation Method	109
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3.6. Back up Your Data	130
3.7. Reset to Factory Default	132

3.1. HOME SCREEN

When the mobile computer is fully charged, press the Power key for three seconds to turn on the mobile computer. A locked screen will appear.

LOCK SCREEN

To enter the **Home** screen, you need to unlock the Lock screen.

Simply swipe up from the bottom of the screen toward “unlock”  to unlock the screen. You may need to further draw the pattern, input PIN or password depends on the [screen lock](#) you set.

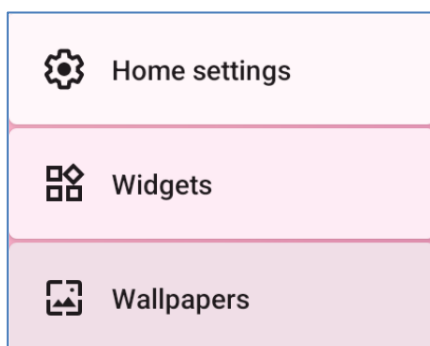
APP DRAWER

“**App Drawer**” is where all the applications installed on the device are listed.

To open **App Drawer**, please swipe up from the bottom of the screen.

CHANGE HOME SCREEN WALLPAPER

- 1) Tap and hold any empty spot on the home screen.
- 2) Tap **Wallpapers** in the menu that appears, and select the app you would like to use.



- 3) Select an image to apply as the wallpaper.
- 4) Tap **SET WALLPAPER**.

3.1.1. APPLICATION & WIDGET ON HOME SCREEN

ADD APPLICATION SHORTCUT TO HOME SCREEN

To add an application to Home screen:

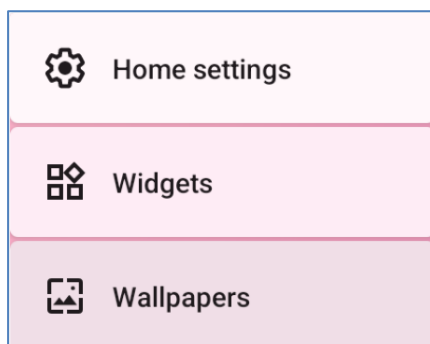
- 1) Open [App Drawer \(All Application\)](#) on the home screen you would like to customize.
- 2) Locate the application to add, tap and hold the application icon.
- 3) Drag the application icon upward and the home screen will appear. Keep dragging the app icon and move it to your preferred position and release to have it placed.

Long pressing certain applications such as Chrome or Gmail may show the **app shortcuts**. To add such applications from [App Drawer](#) to **Home** screen, please:

- 1) Keep tapping and holding the application icon and drag it upward.
- 2) The **Home** screen will appear. Drag the application icon to your preferred position and release to have it placed.

ADD WIDGET TO HOME SCREEN

- 1) Tap and hold any empty spot on the home screen, and select "**Widgets**" from the appeared menu.



- 2) In the widget selection list, scroll to locate your desired widget.
- 3) Tap and hold the widget until the home screen layout appears. Drag the widget to your preferred position and release to have it placed.
- 4) For a setting shortcut, you will have to select a specific setting from the shortcuts list.

ADD AN ACTION ICON FROM APP SHORTCUT TO HOME SCREEN

To create an **Action** icon from the **app shortcuts** to Home screen, please:

- 1) Long press an application icon (no matter on the **Home** screen or the [App Drawer](#)) to unfold its **app shortcuts**.
- 2) Tap and hold an **Action** from the **app shortcuts** and drag it to the preferred position on the Home screen.
- 3) Release the **Action** icon to have it placed.

ARRANGE THE APPLICATIONS AND WIDGETS ON HOME SCREEN

To move or remove a shortcut/widget, on the home screen you would like to customize, tap and hold it, and then drag it to anywhere on Home screen to enter layout edit mode. An option "**X Remove**" will appear on top of the screen where you can drag the unwanted shortcut/widget to remove it. Drag the icon to the preferred position and release it to have it placed, or drag it to "**X Remove**" to remove it.

To resize a widget, tap and hold it until a white frame appears. Tap and drag a white dot to re-scale the widget.

ARRANGE THE APPLICATIONS WITH APP SHORTCUTS ON HOME SCREEN

To move or remove those applications which offer app shortcuts, please hold and drag the application icon to anywhere on the screen, and the layout edit mode appears. Drag the application icon to "**X Remove**" on the top of the screen to remove it, or to the preferred position and release it to have it placed.

3.1.2. FOLDER ON HOME SCREEN

CREATE FOLDER

- 1) On the home screen you would like to customize, tap and hold the application shortcut you would like to move, drag the icon on the top of another icon to create a folder.
- 2) As these icons overlap, a folder is created.
- 3) After you let go your finger, these icons are enclosed in a square.

NAME A FOLDER

- 1) Tap the folder you would like to name.
- 2) The folder will expand from a small square to a full rectangle to show all the shortcuts in it. Tap "**Edit Name**" and edit the folder name.
- 3) Tap **Done** button on the on-screen keyboard.
- 4) Tap elsewhere on the screen, the folder will shrink to a small square with its new name.

REMOVE FOLDER

- 1) Tap and hold the folder you would like to remove.
- 2) Drag the folder to the top of the screen where the option "**X Remove**" is located.

Note:

Please note when you remove a folder, the shortcuts contained in it will be removed as well.

3.2. NAVIGATION METHOD

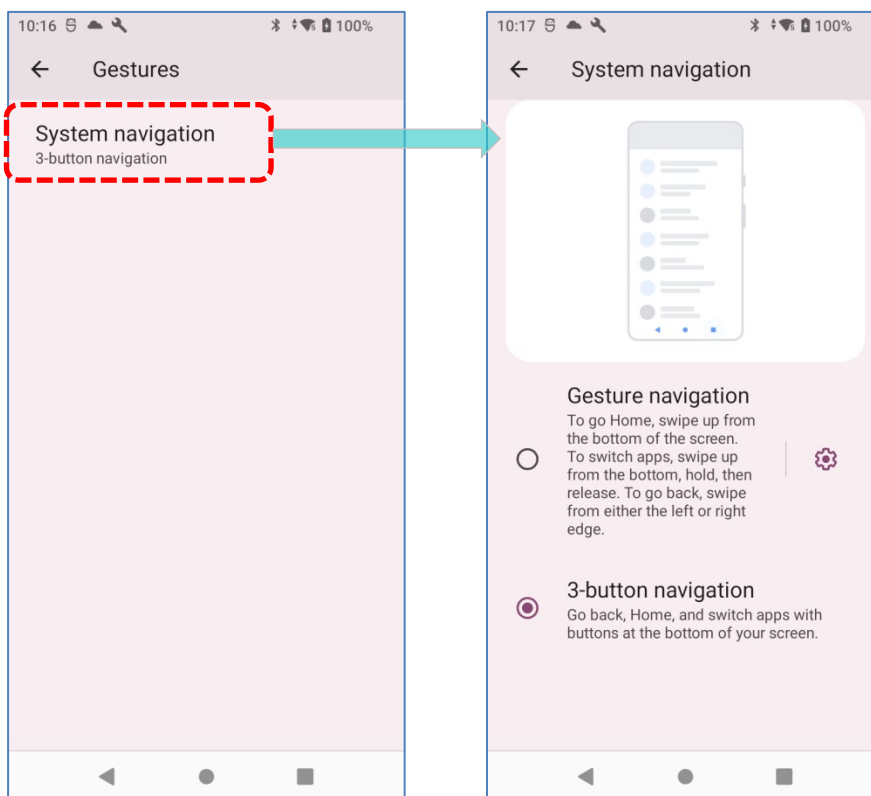
Navigation is to set how you control the device by using swipes and other actions or tapping on buttons.

3.2.1. CHANGE THE NAVIGATION METHOD

The default navigation method is 3-button navigation which appears as the menu bar on the bottom of the screen.

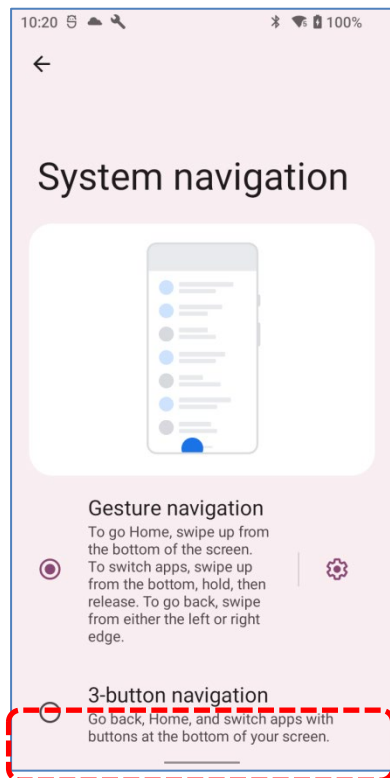
To change your navigation method, please:

Go to [App Drawer \(All Apps\)](#) | **Settings**  | **System**  | **Gesture**  | **System navigation**.

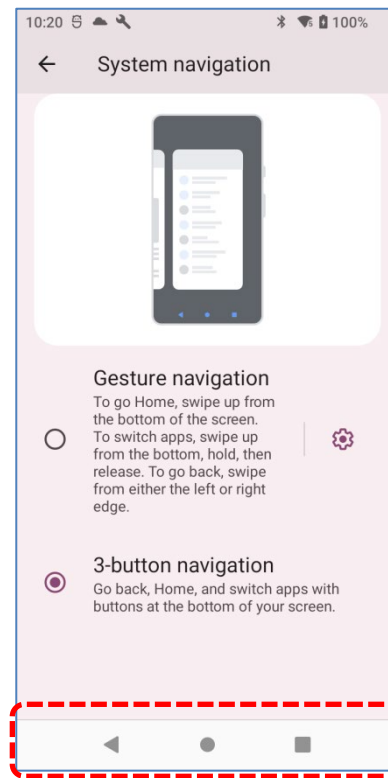


The available options are:

- **Gesture navigation**




- **3-button navigation (default)**

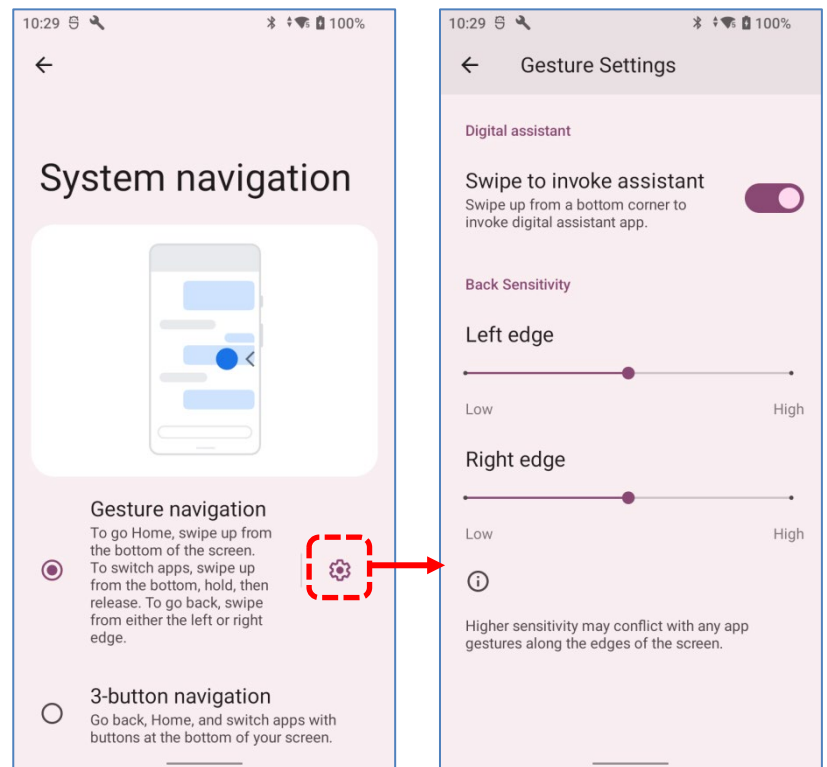


GESTURE NAVIGATION

“**Gesture navigation**” is for navigating through the screens and menus by gesture-based controls. Once is enabled, you can control the device screen by following the gestures:

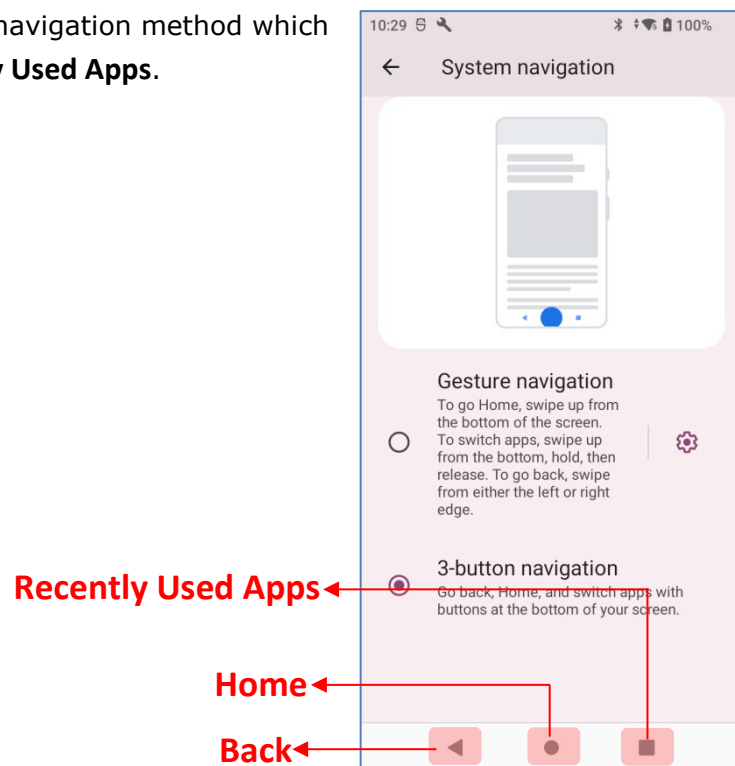
Action	Gesture
Home	Quickly swipe up from the bottom of the screen.
Back	Swipe either on the left or the right edge of the screen.
Recently Used Apps	Swipe up from the bottom of the screen and then stop for few second before releasing your finger.
Google Assistant	Swipe up from one of the bottom corners toward the middle of the screen, and then pause for a while.
App Menus	Swipe on the screen from the left side or the right side with two fingers.

Tap on the setting button  to enter "Gesture Settings" page to configure "Gesture Settings" which allow you to set the distance of the inward swipe from the screen side edge to trigger "Back" gesture. The higher sensitivity you choose, the farther distance from the screen edge you have to go to.



3-BUTTON NAVIGATION

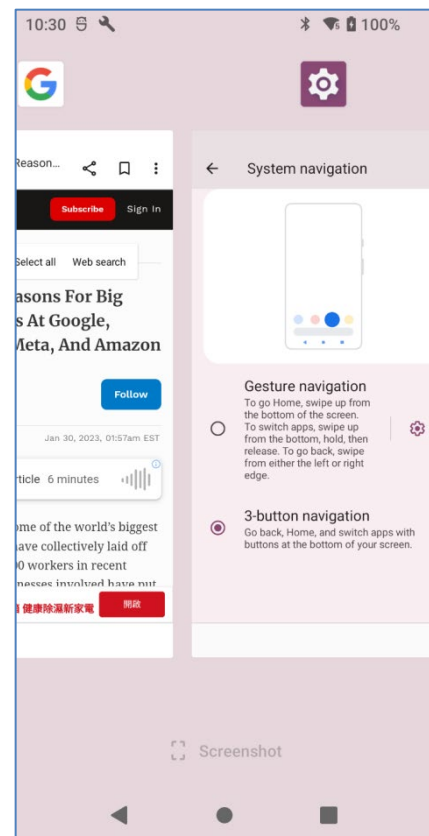
3-button navigation is the default navigation method which displays **Home**, **Back**, and **Recently Used Apps**.



3.2.2. RECENTLY USED APPLICATIONS

To reveal the **Recently Used Apps Menu**, you can:

- For **"Gesture navigation"**:
Swipe up from the bottom of the screen and then stop for few second before releasing your finger.
- For **"3-button navigation"**:
Directly tap on **"Recently Used Apps"** button.



On this screen, you can:

SWITCH BETWEEN APPLICATIONS

Slide to the left or right to check the listed applications, tap on your desired one to open it on the screen.

END APPLICATION

Swipe an application up to close it.

Note:










Close unused applications in order to release RAM. Remember to save your data or settings before closing any application.

3.3. STATUS BAR











The left side of the status bar shows **notification icons**, and the right side of the status bar shows **status icons**.

3.3.1. ICONS ON STATUS BAR

STATUS ICONS

Icon	Description
	The device has been connected to a Bluetooth device.
	The device is currently connected to a Wi-Fi network and performing data transmission.
	Airplane mode is active, which means all radios are inactive now.
	Alarm is active.
	All sounds are silent except for alarms (Vibration mode).
	The main battery is fully charged.
	The main battery is partially drained.
	Main battery level is very low and needs charging immediately (<15%).
	External power source is connected and main battery is being charged.

NOTIFICATION ICONS

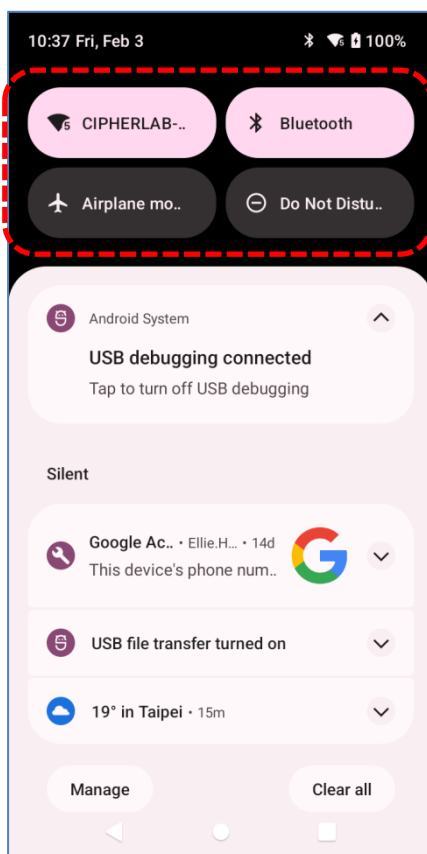
Icon	Description
	Android System notification such as “ USB debugging connected ” or “ USB file transfer turned on ”. Open Notifications Drawer for more details.
	The device is performing data synchronization.
	There is an upcoming event.
	The device is downloading data. / Download completed.
	The device is uploading data. / Upload completed.
	An open Wi-Fi network is available.
	A memory card has been inserted.
	The headset has been inserted.
	Wi-Fi hotspot is active.
	Wi-Fi will turn on automatically when there's the saved network with a strong signal nearby.

3.3.2. OPEN QUICK SETTING MENU

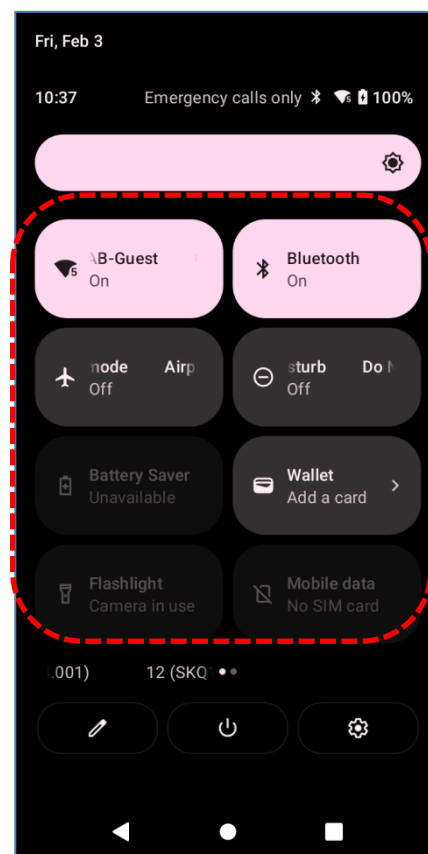
The **status icons** are related to essential settings regarding the device's remaining power, Bluetooth status or Wi-Fi connectivity status. The status bar offers a quick access for you to easily make adjustments of the settings.



By short swipe from the status bar, **Quick Setting Panel** will be revealed. To open **Quick Setting Menu**, please swipe from the top to the bottom of the screen. You can tap on each status icon on the menu to switch among different modes or enter the settings.

▪ Quick Setting Panel

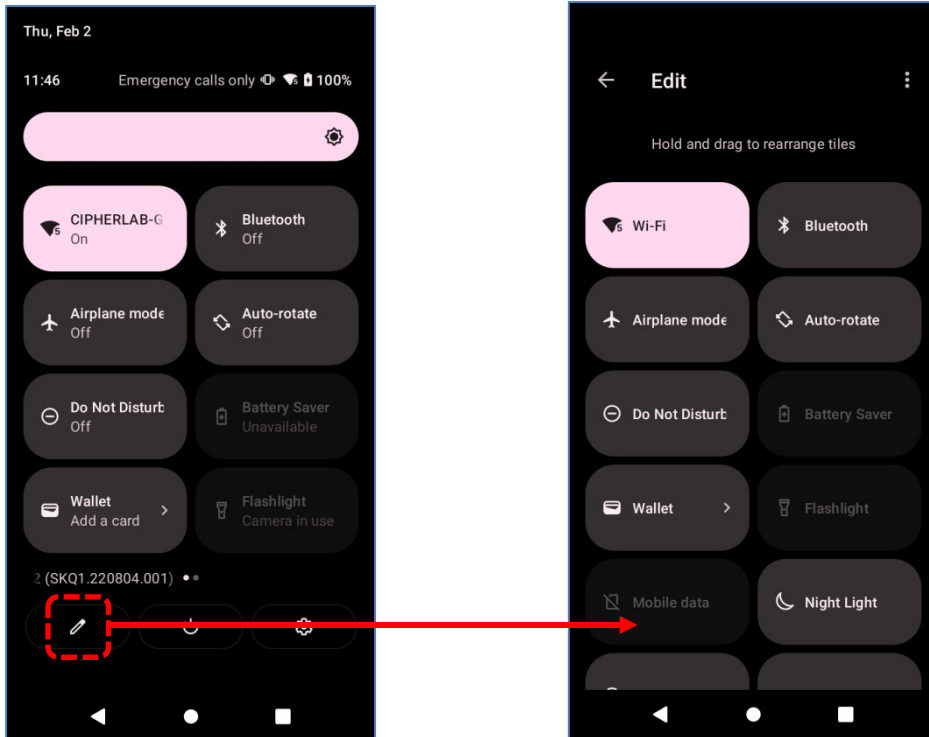


▪ Quick Setting Menu

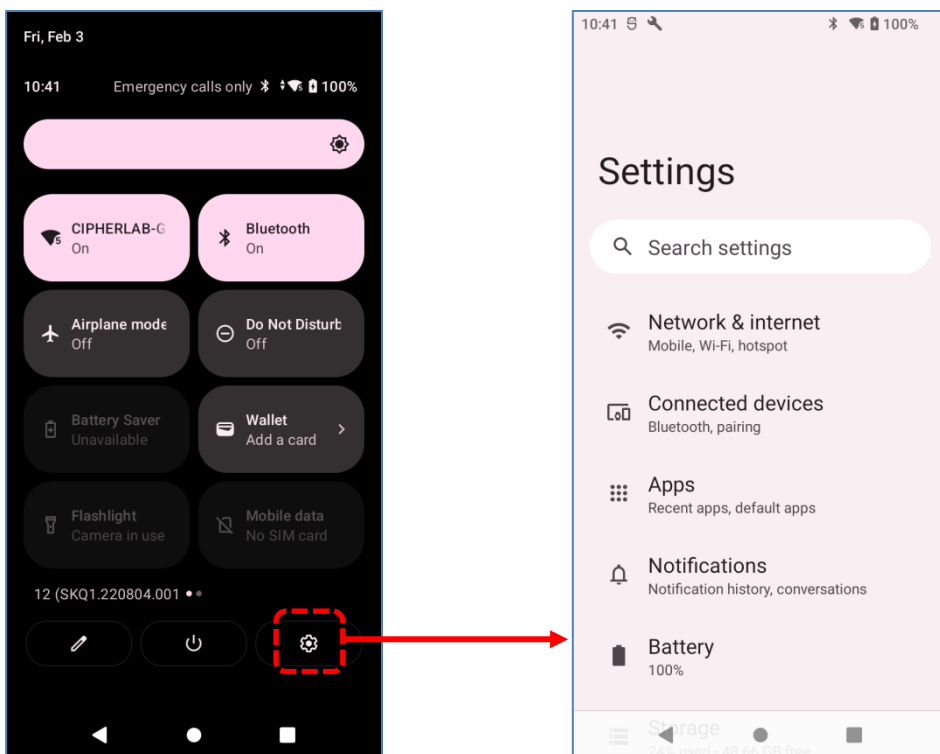


Tap on the two buttons,  and  , on the bottom side of the **Quick Setting Menu** will respectively enter the below pages:

-  **Quick Setting Menu Edit Page:**




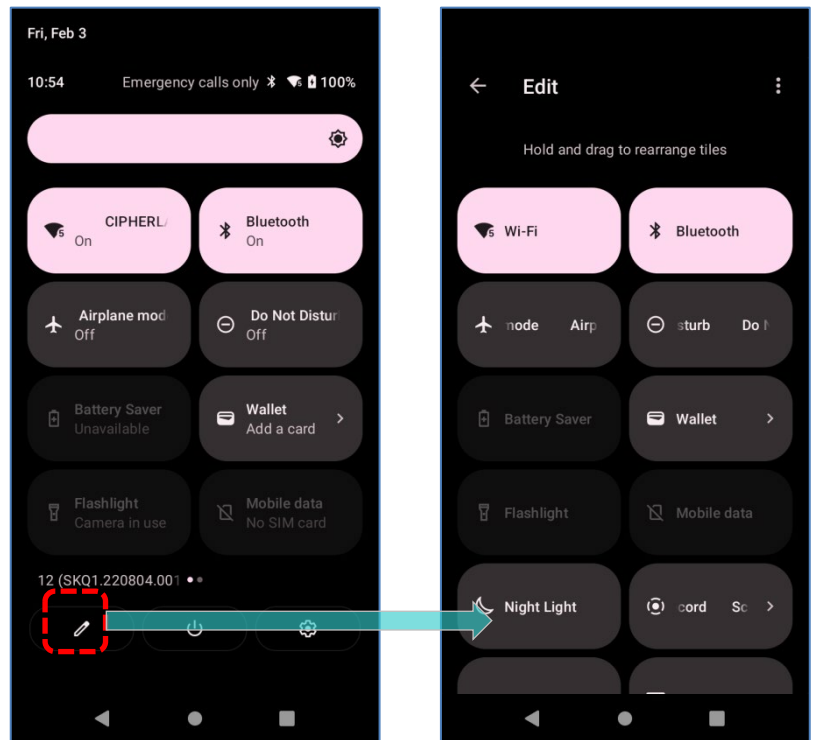
-  **“Settings” Page:**



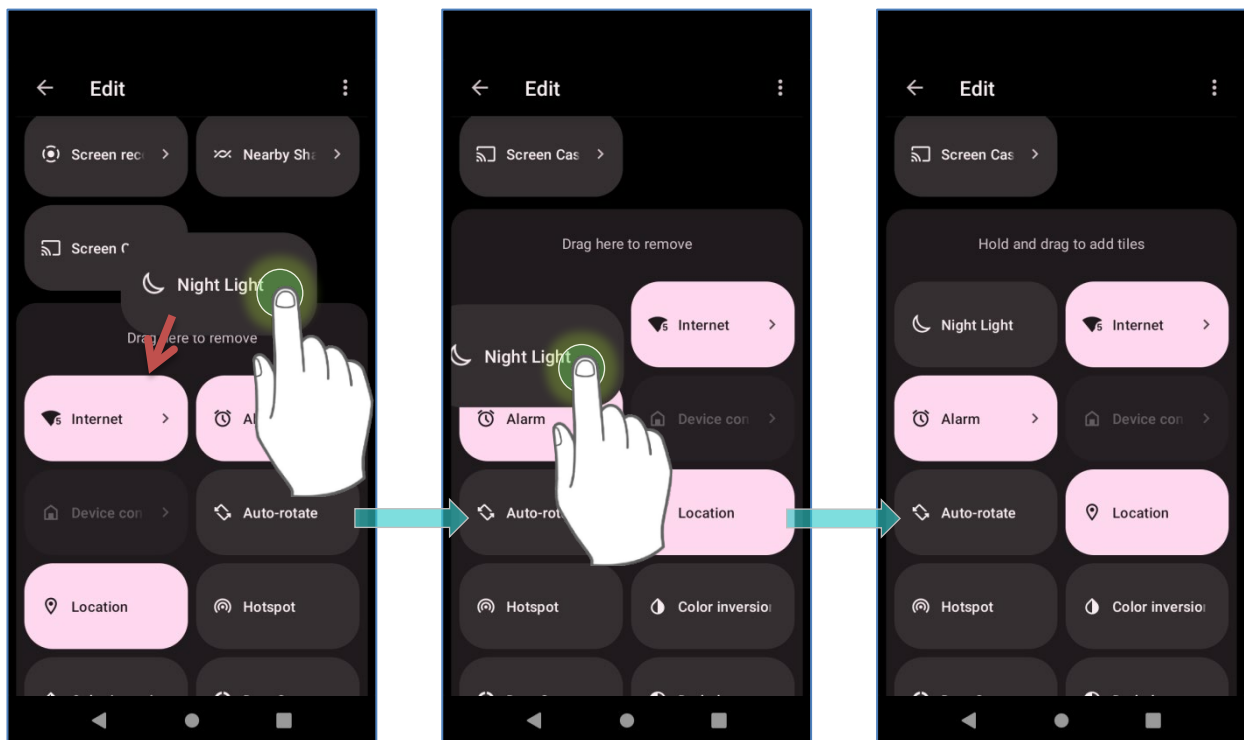
EDIT QUICK SETTING MENU

To customize **Quick Setting Menu**, please:

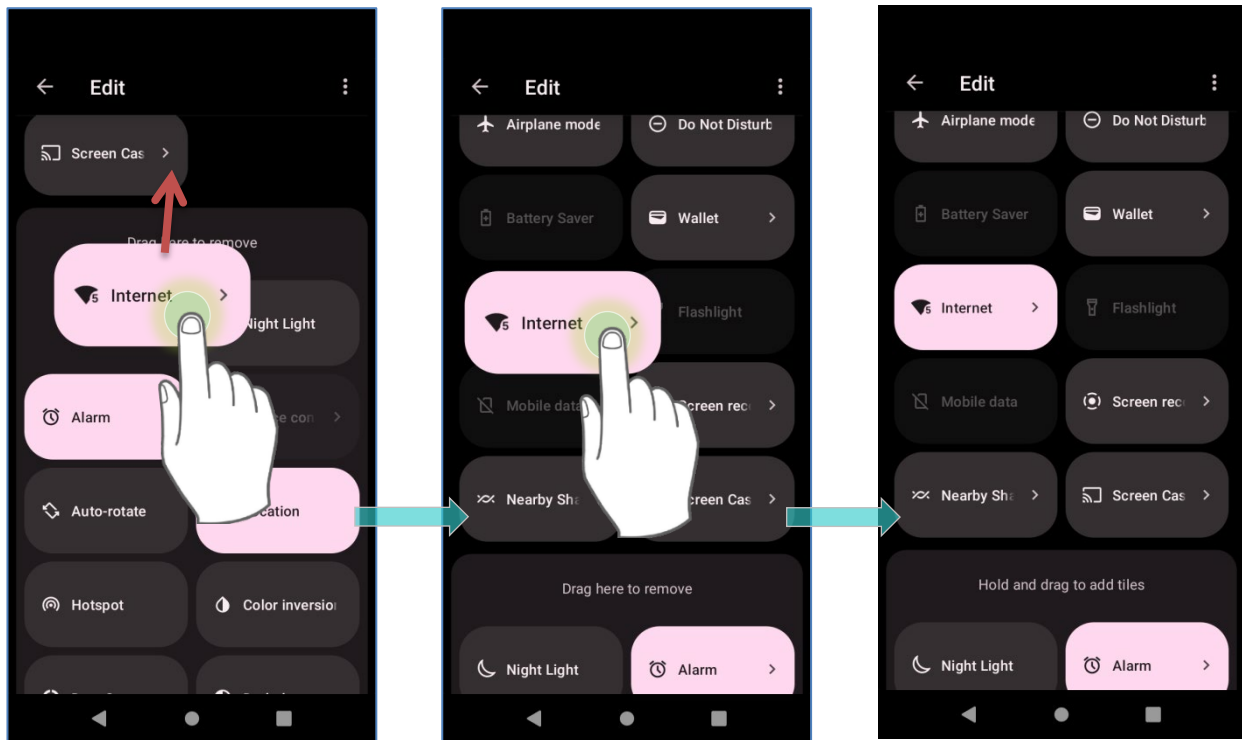
- 1) Click "EDIT"  to get into **Edit** page.



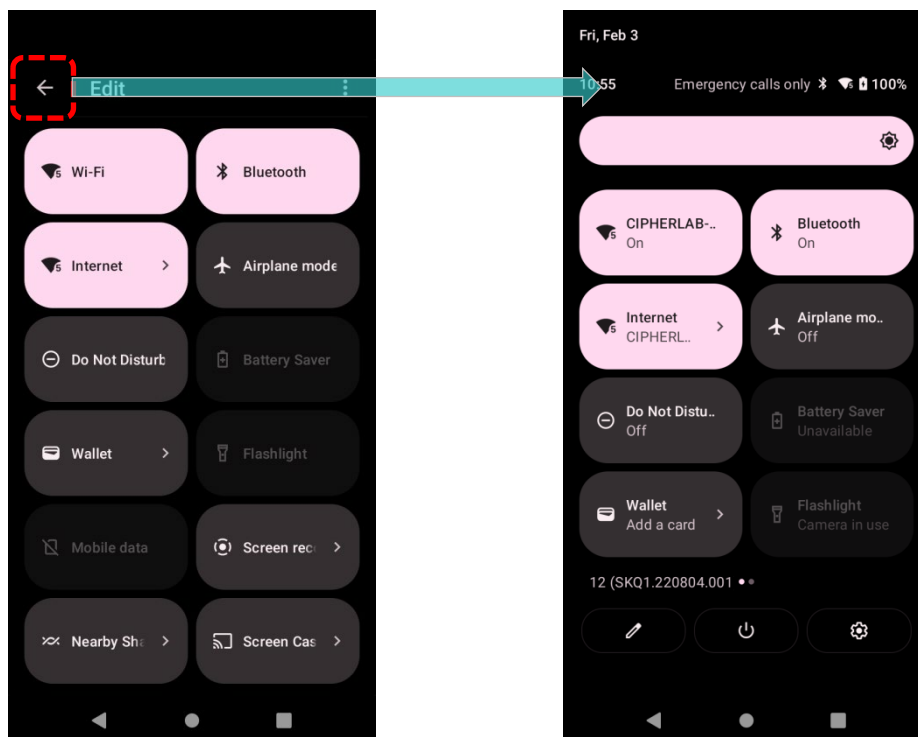
- 2) **Remove:** To remove certain item, please tap on and hold the icon to be removed, and drag it to the "DRAG HERE TO REMOVE" area and then release it.



- 3) **Add:** To add certain item, please tap on and hold the icon to be added and drag it to the upper area and then release it.



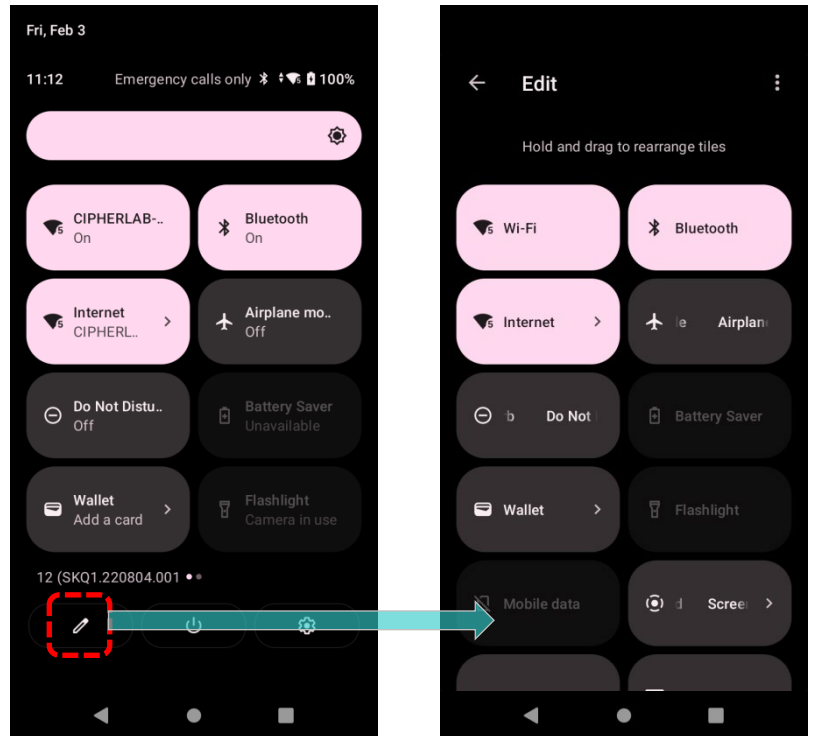
- 4) Return to the **Quick Settings Menu**, all the settings are done.



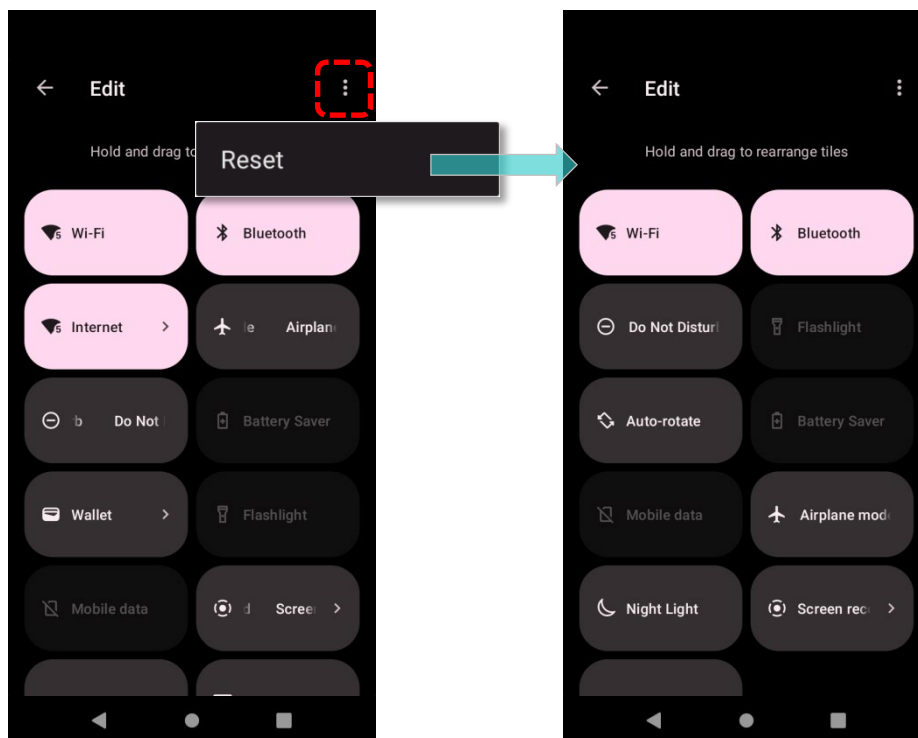
RESET QUICK SETTING MENU

To reset the **Quick Setting Menu**, please:

- 1) Tap **"EDIT"**  to enter **Edit** page.



- 2) Tap **More** icon  in the upper-right corner, and tap **"Reset"**.

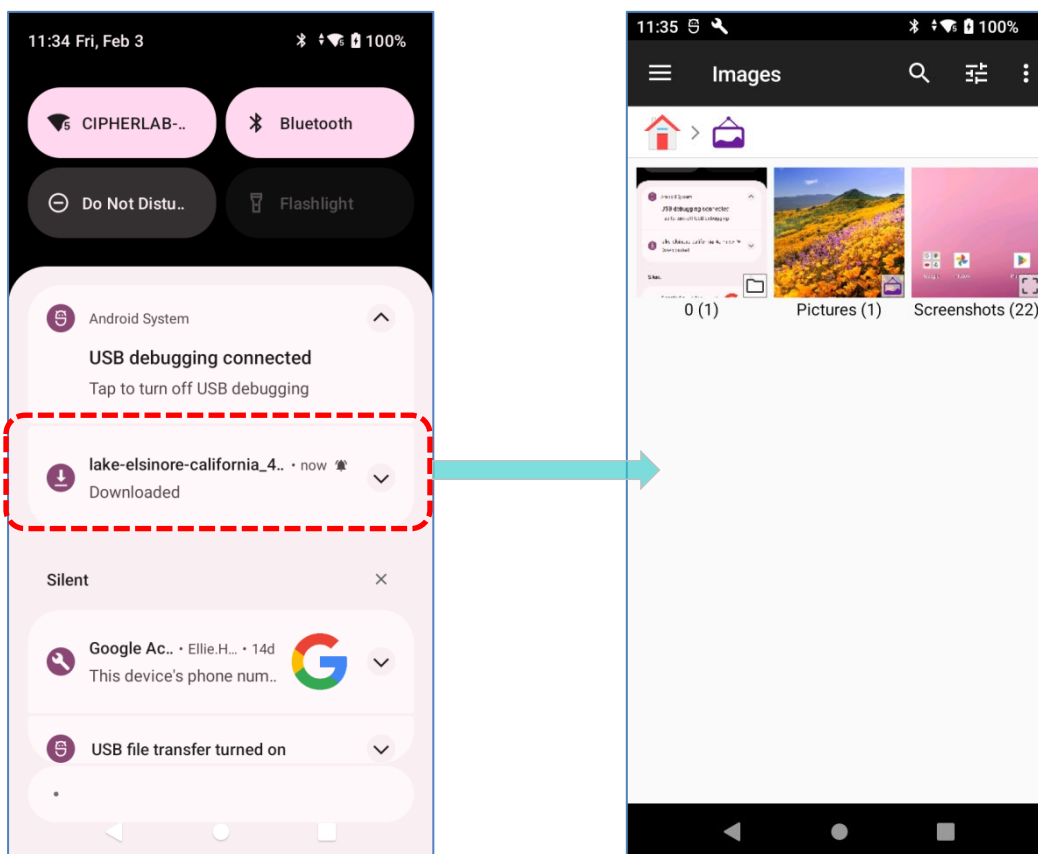


3.3.3. OPEN NOTIFICATIONS DRAWER

The **notifications icons** on status bar inform you of the new events such as incoming calls, messages or USB connection.

CHECK OUT NOTIFICATION

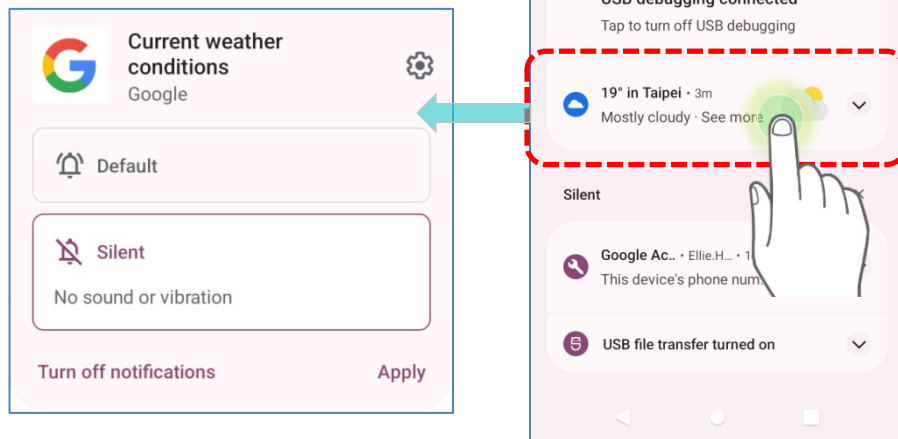
To check out details of the events, swipe down from the status bar to open [Notifications Drawer](#).



Tap on the individual notification card to carry out immediate action or to open the corresponding application.

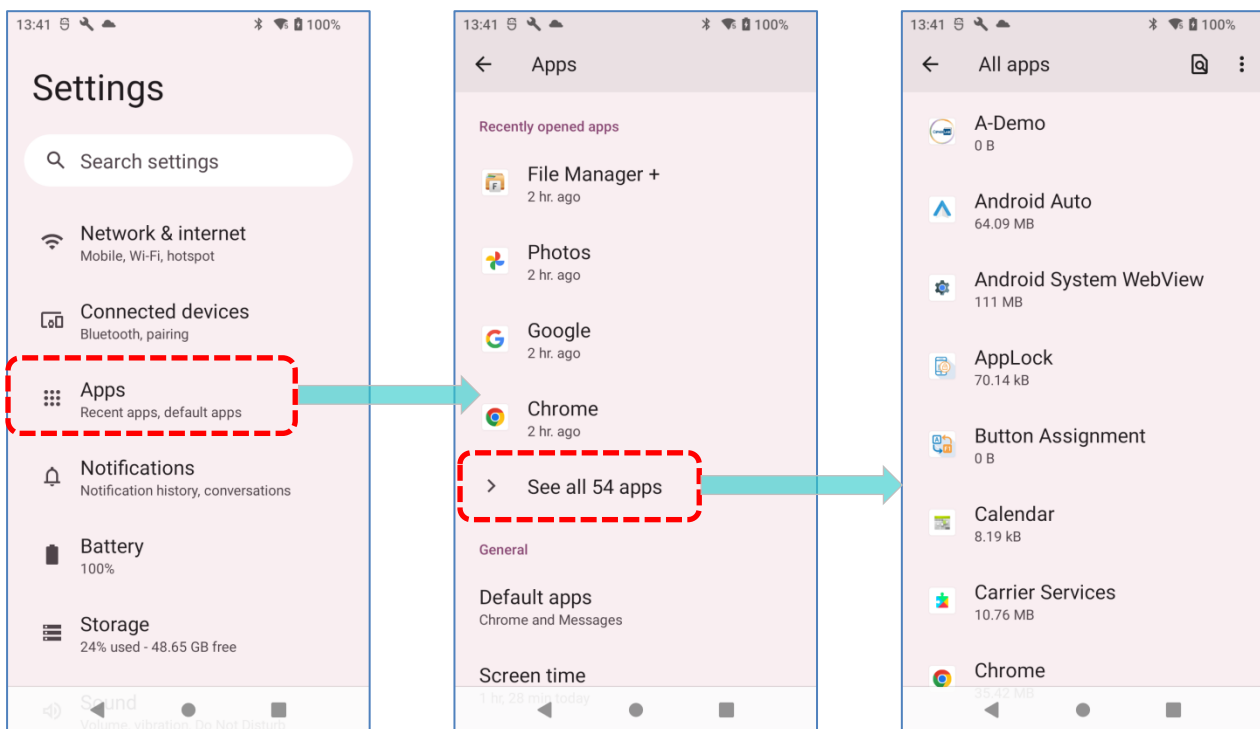
DISABLE NOTIFICATION

You can turn off the notification of a specific app by tapping and holding on the notifications card until the corresponding app name reveals. Tap to choose **"Default"**, **"Silent"**, or **"Turn off notifications"**.

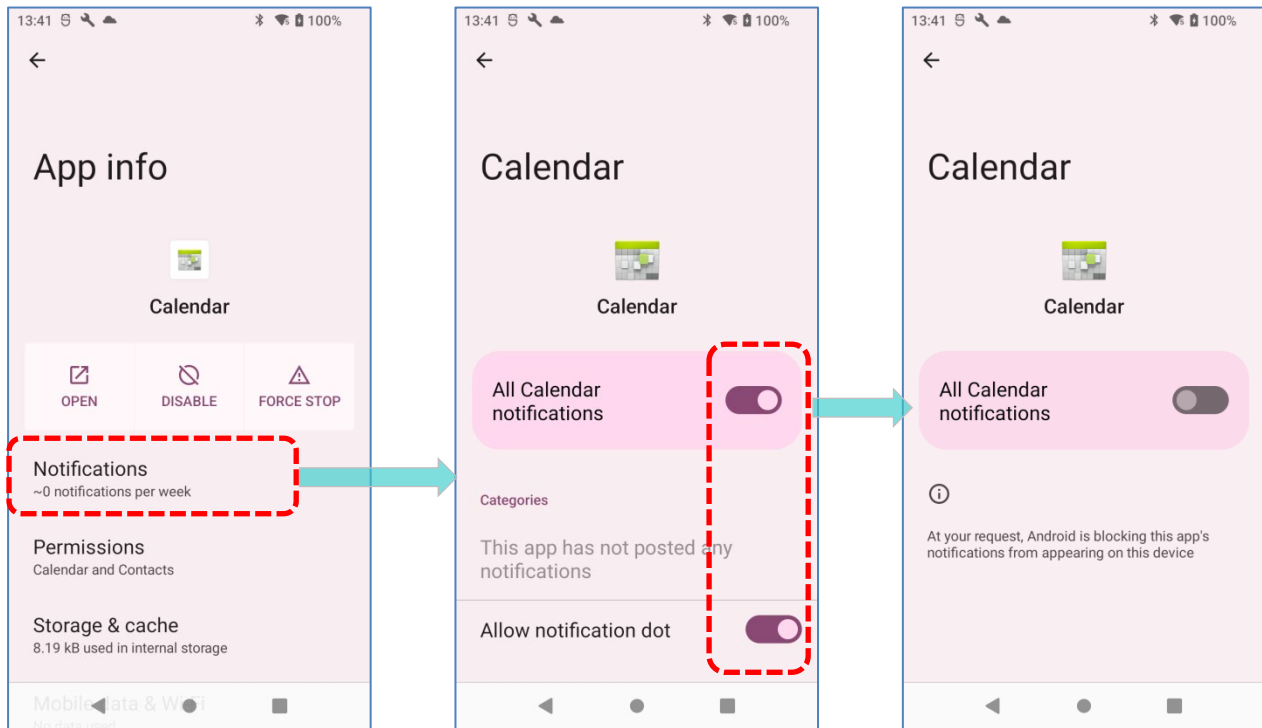


OR

- 1) Go to [App Drawer \(All Apps\)](#) | **Settings** | **Apps** | **See all XX apps** to find the app you would like to change its notification settings.

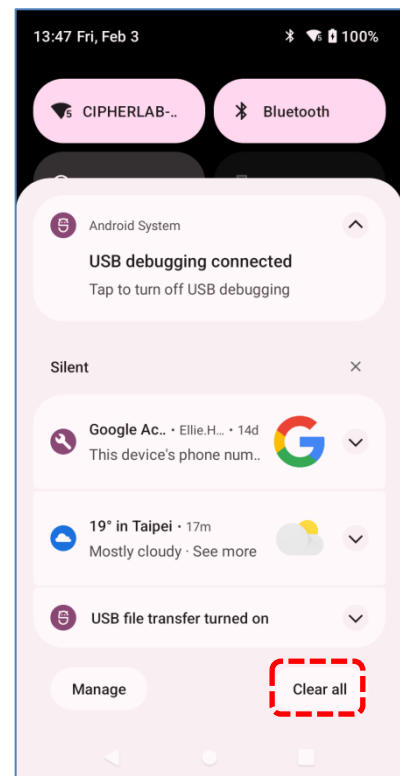


- 2) Tap to enter the **"App info"** page and tap **"Notifications"** to switch on or off **"Show notifications"** and other settings.



CLEAR NOTIFICATION

To dismiss all notifications at a time, please tap on **"CLEAR ALL"**. Ongoing notifications and notifications that require subsequent activity to be cleared will remain on the list.



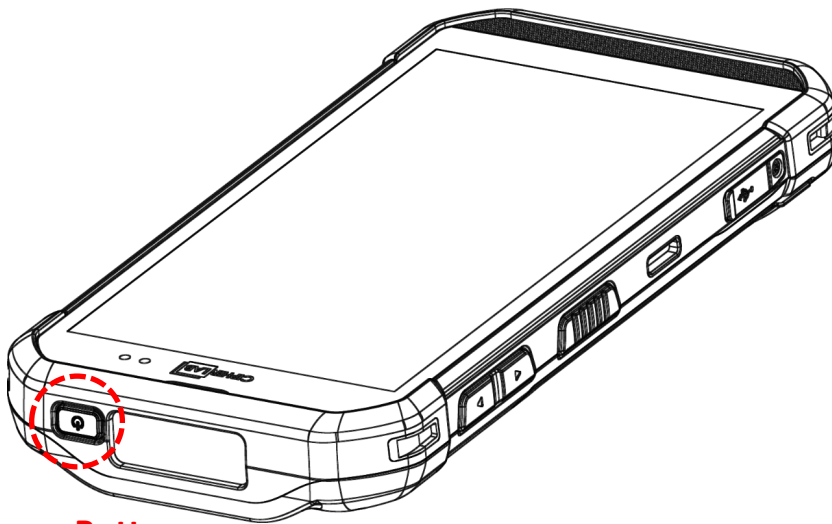
3.4. SUSPEND & LOCK

3.4.1. SUSPEND DEVICE

The mobile computer operates continuously once it is powered on. To minimize power consumption and prevent unintended operation, suspend the mobile computer if you are not actively using it. The mobile computer can be quickly awoken from suspend mode to operate as needed. When the mobile computer enters suspend mode, the system is in a power-saving status, meaning the device will not respond to screen touch, and volume keys and side buttons will also be unavailable until the device is unlocked.

SUSPEND RS36

Press the power button to suspend the mobile computer. The mobile computer will automatically suspend when the time period set in [Screen Timeout Settings](#) has passed without any activity.



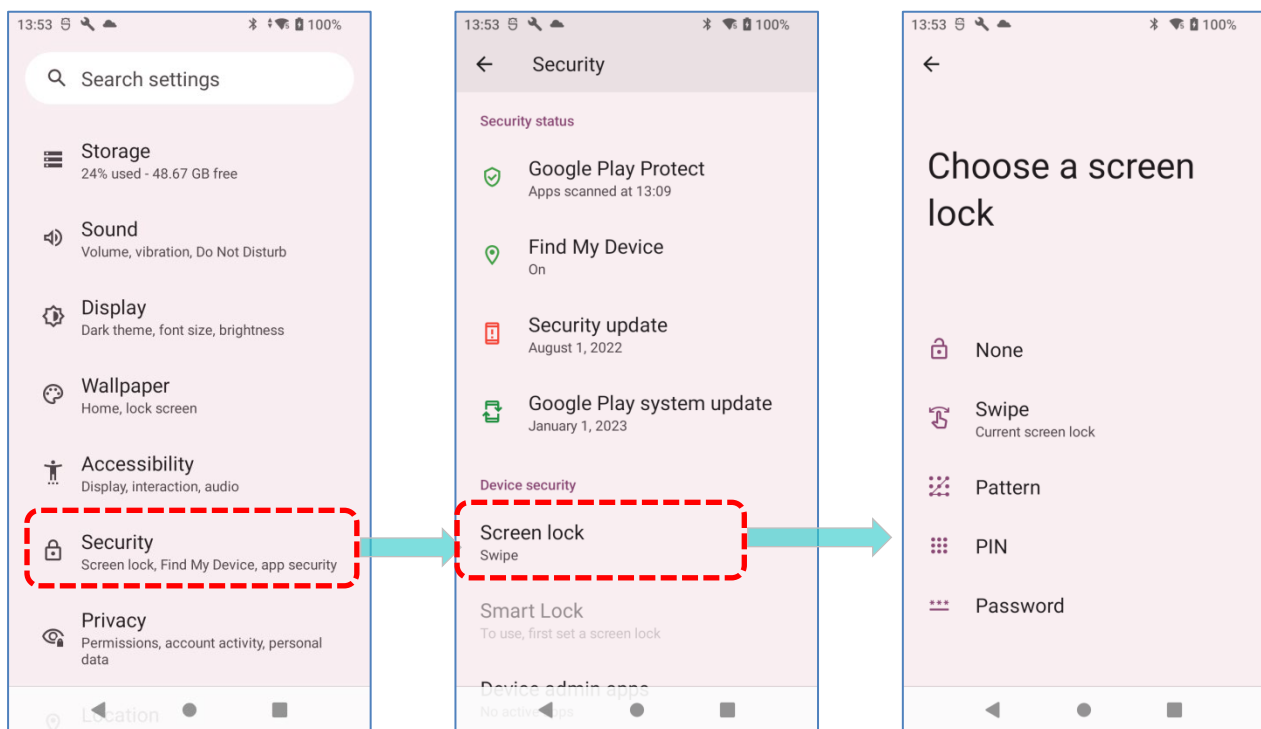
Power Button

3.4.2. LOCK DEVICE

Setting a screen lock allows you to protect your personal data on this device while the device is not at your hand. With various types of screen lock available and Smart Lock, you can not only enjoy the benefits of this function but also great convenience.

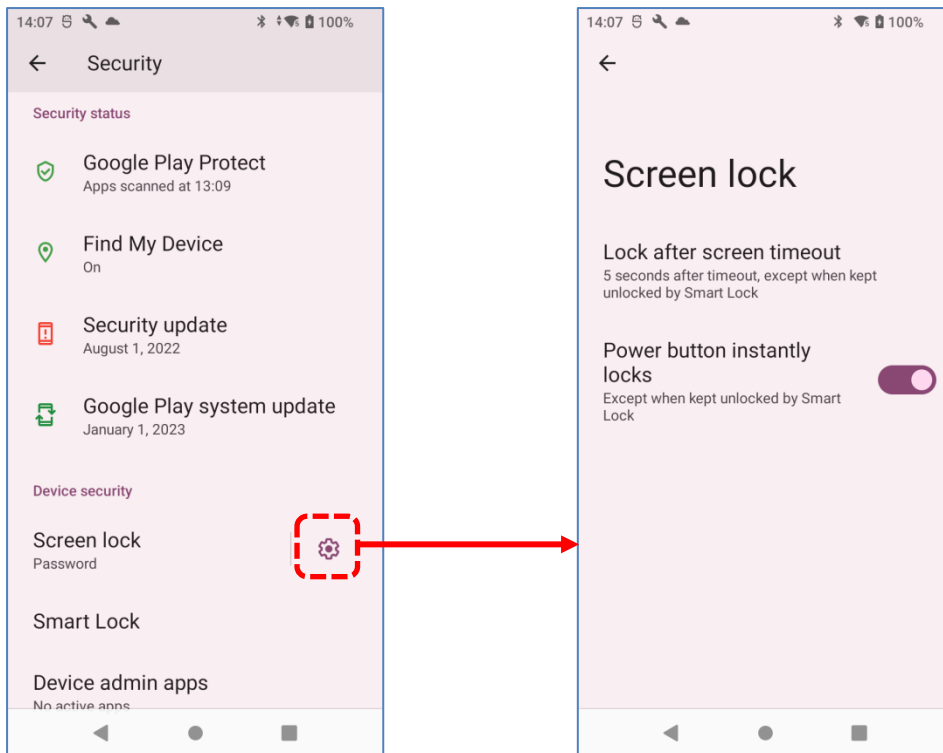
LOCK RS36

Go to [App Drawer \(All Apps\)](#) | **Settings**  | **Security**  | **Screen lock** to change the lock method.



Item	Description
None	Disable screen lock.
Swipe	Default slide gesture.
Pattern	Enter a pattern to unlock.
PIN	Uses the PIN code to unlock.
Password	Enter a password of at least 4 characters to unlock.

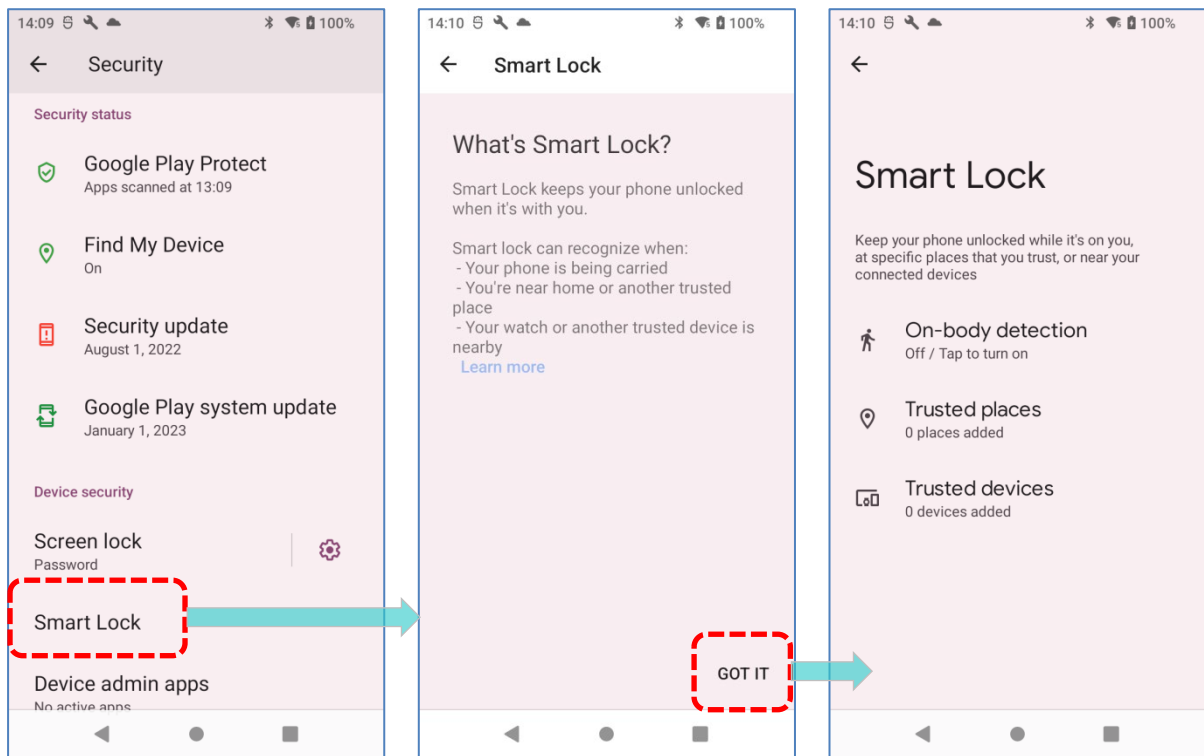
By selecting a **Pattern**, **PIN**, or **Password** method, a setting icon appears next to “**Screen lock**”. Tap to enter “**Screen lock**” page for further configurations.



Screen Lock advanced settings are:

Item	Description
Lock after screen timeout	Set the time interval between screen timeout and automatically locking the screen.
Power button instantly lock	Switch to enable/ disable instantly lock screen by pressing power button.

You can also access **Smart Lock** to customize personal lock settings.



3.5. OS UPDATE

Updating the operating system on the mobile computer helps maintain it at an optimized state. You may choose to update the system by establishing a wireless network connection to the Internet and downloading the update file from the OTA server.

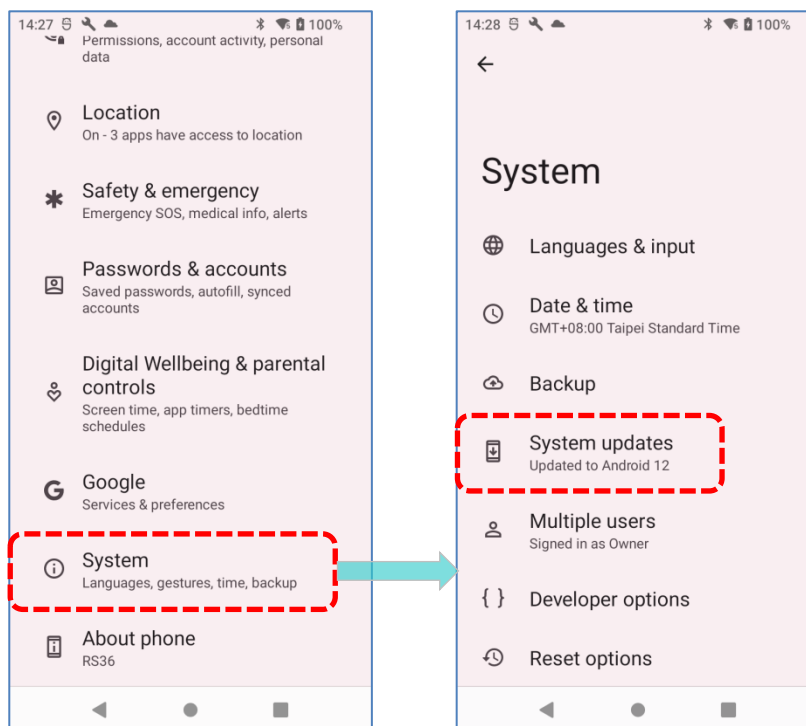
Note: The mobile computer will shut down during system update. Save any unfinished tasks and data before updating the system in order to avoid data loss.

3.5.1. NETWORK UPDATE

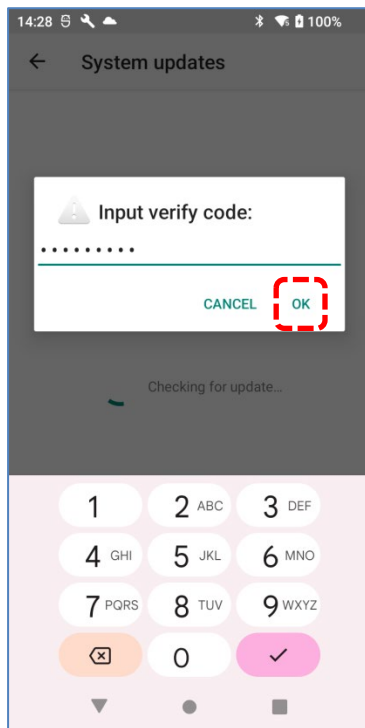
In order to check for and download the latest system update file on the server, make sure a wireless network connection to the Internet is established on the mobile computer.

Note: To avoid any additional charges to your wireless data plan, Wi-Fi connection to the Internet is recommended for downloading the file.

- 1) Go to [App Drawer](#) | **Settings**  | **System**  | **System updates**  .



- 2) A window pops up asking you to input the password for system update. Please contact with support@cipherlab.com.tw for the password. Enter the password and tap **OK**.



- 3) The mobile computer searches for the latest system update file on the server. Tap **DOWNLOAD AND INSTALL** to download the update file.
- 4) When a new system update file is detected on the server, a notification icon will appear on the status bar, and a text notification will pop up in the notifications panel.

AUTOMATIC UPDATE

The automatic update feature of RS36 mobile computer is off by default, and you can change the setting by **ADC** (Android Deployment Configurator) to turn it on.

By enabling automatic update feature, RS36 mobile computer automatically detects whether there's the latest OS update and downloads it. The update is scheduled to proceed on early morning when the device is on and left idle.

3.5.2. SD CARD UPDATE

RS36 mobile computer automatically searches the available update files in your mobile computer's storage and then install it.

Please obtain the latest system update image file, and then rename and copy the file as **"sdupdate.zip"** onto the folder **"sdupdate"** of your SD card. Insert the SD card into the memory card slot on the device. Press the power button to power it on.

OR

Transfer the update image file to the root directory of the device's internal storage via a USB Type-C cable/ the snap-on cable.

The newest version of OS will be automatically installed and take effect next time the device is booted up.

Note:

Make sure the SD card is properly inserted in the mobile computer; otherwise the system is regarded as currently up to date.

3.6. BACK UP YOUR DATA

With **Backup**, you can have your personal data (Google Calendar settings, Google contacts, Chrome browser data and Gmail settings) and certain system settings under your Google Account backed up (over network connection) on the cloud. This allows you to easily restore the settings on this device after a Factory Reset (refer to [Reset to Factory Default](#)). Follow the steps to start your backup settings:

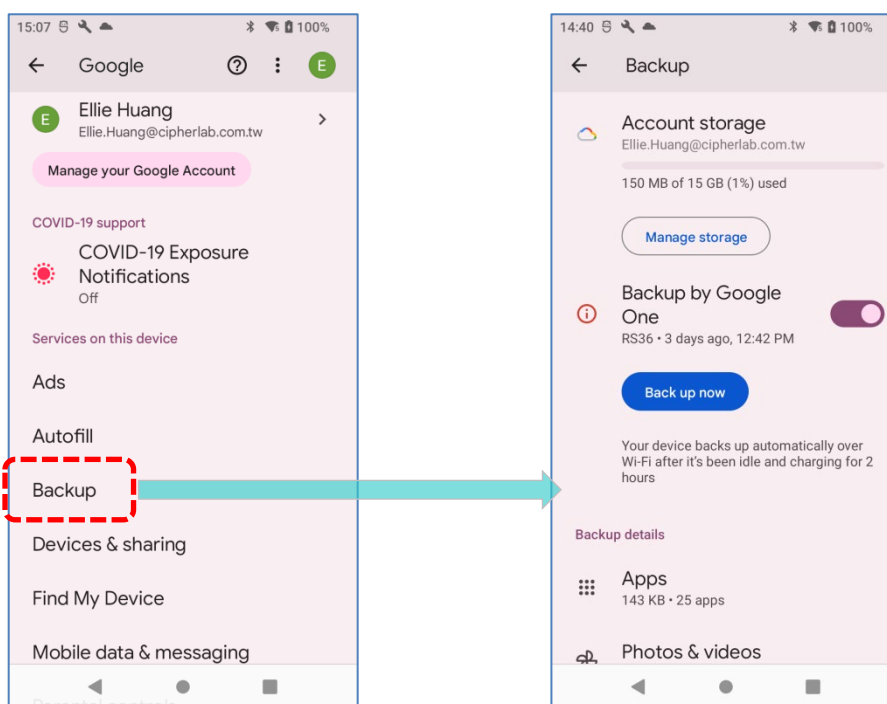
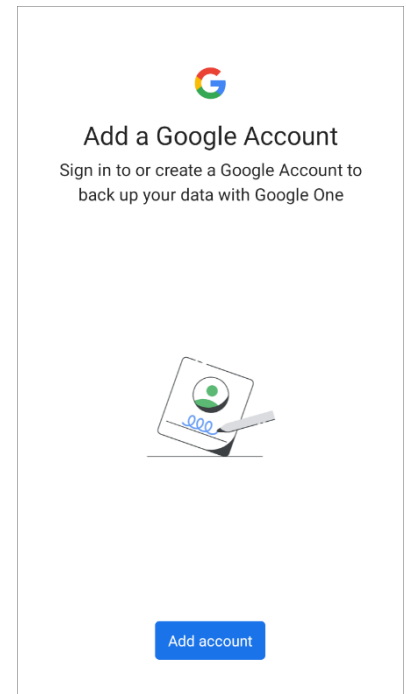
1) Make sure your device is connected with network.

2) Go to [App Drawer](#) | **Settings**  | **Google**  | **Backup**

OR

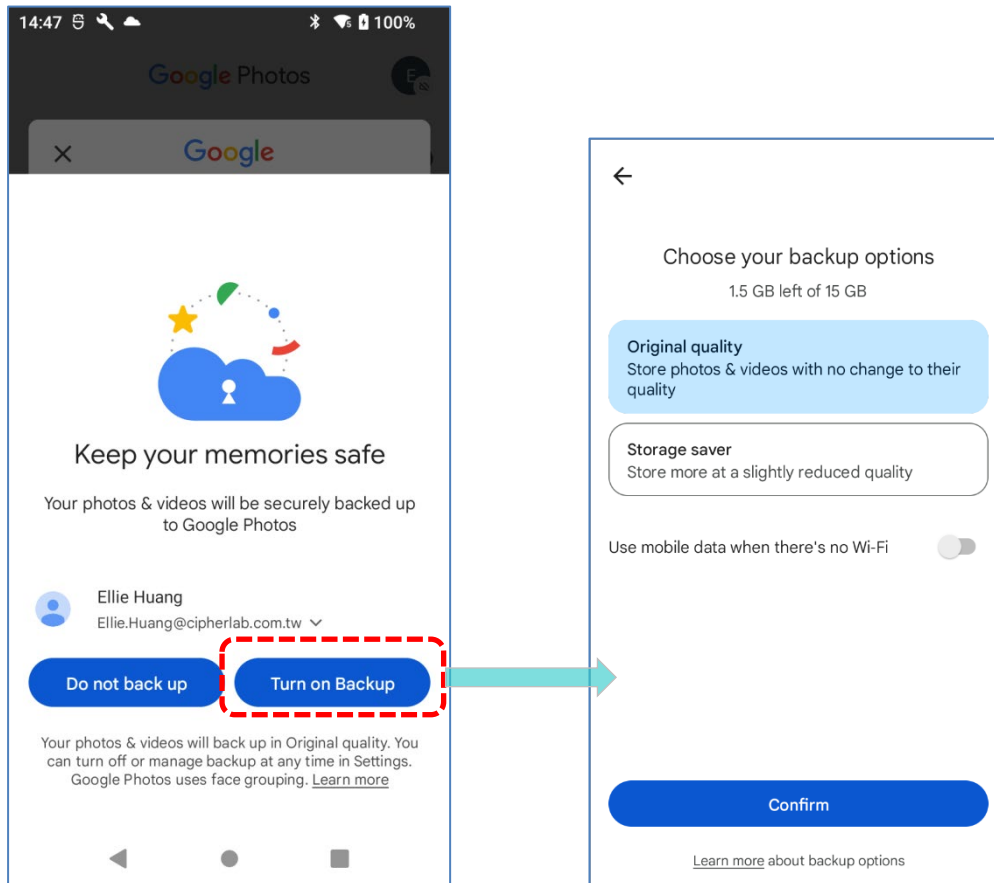
[App Drawer](#) | **Settings**  | **System**  | **Backup** 
and enable **Back up to Google Drive**.

To restore your backed up personal data of your Google Account, just tap on “**Add Account**” to sign in with your Google Account to add that account to the device.



Note:

- (1) To back up your photos and videos, tap *Photos*  in [App Drawer](#) and log in your Google Account to sync the files on your device with Google Photo Library.



- (2) To back up other data such as audio or video files on the device's storage, you can make use of the Google Drive service.

- (3) Backup may not handle certain app progress data and settings.

3.7. RESET TO FACTORY DEFAULT

Performing a factory reset will erase all data on your mobile computer (including, files as well as your installed apps and their associated data) and revert the device back to its original state in which it is powered on for the first time.



It is strongly recommended that following the instructions in [Back Up Your Data](#) to back up important data before performing a factory reset.

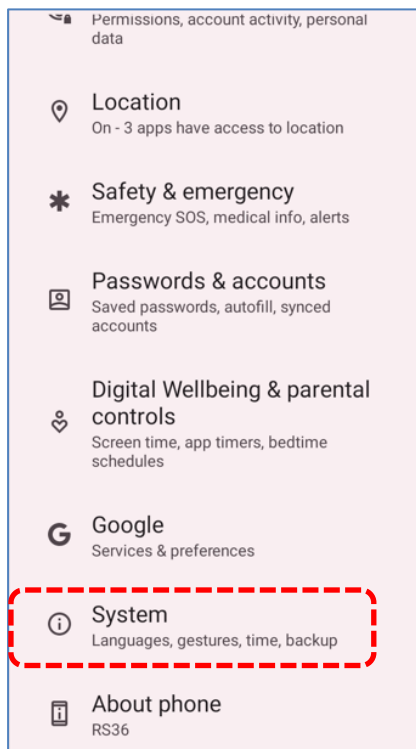
When setting your RS36 mobile computer by **ADC (Android Deployment Configurator)**, the settings will automatically backup to “**enterprise partition**” of your RS36 mobile computer, and the settings saved in enterprise partition will not be erased by proceeding “**Erase all data (factory reset)**”. To erase all the settings, please select “**Erase all data (factory reset with enterprise)**”.


3.7.1. ERASE ALL DATA (FACTORY RESET)

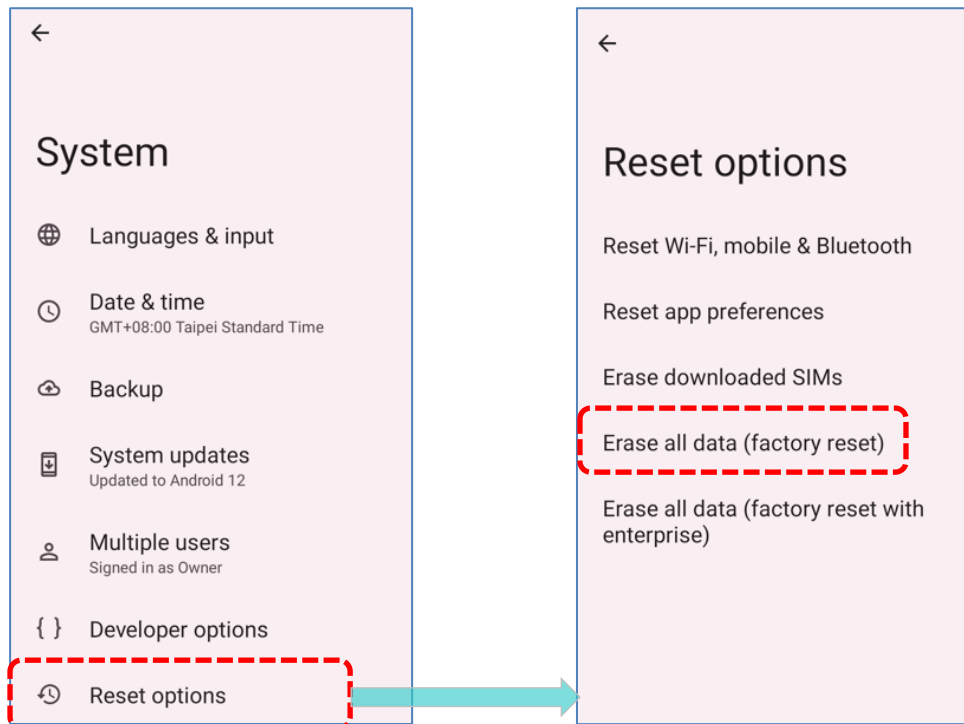
“**Erase all data (factory reset)**” will erase all the data except of the settings backed up in enterprise partition by ADC (Android Deployment Configurator).

To start:

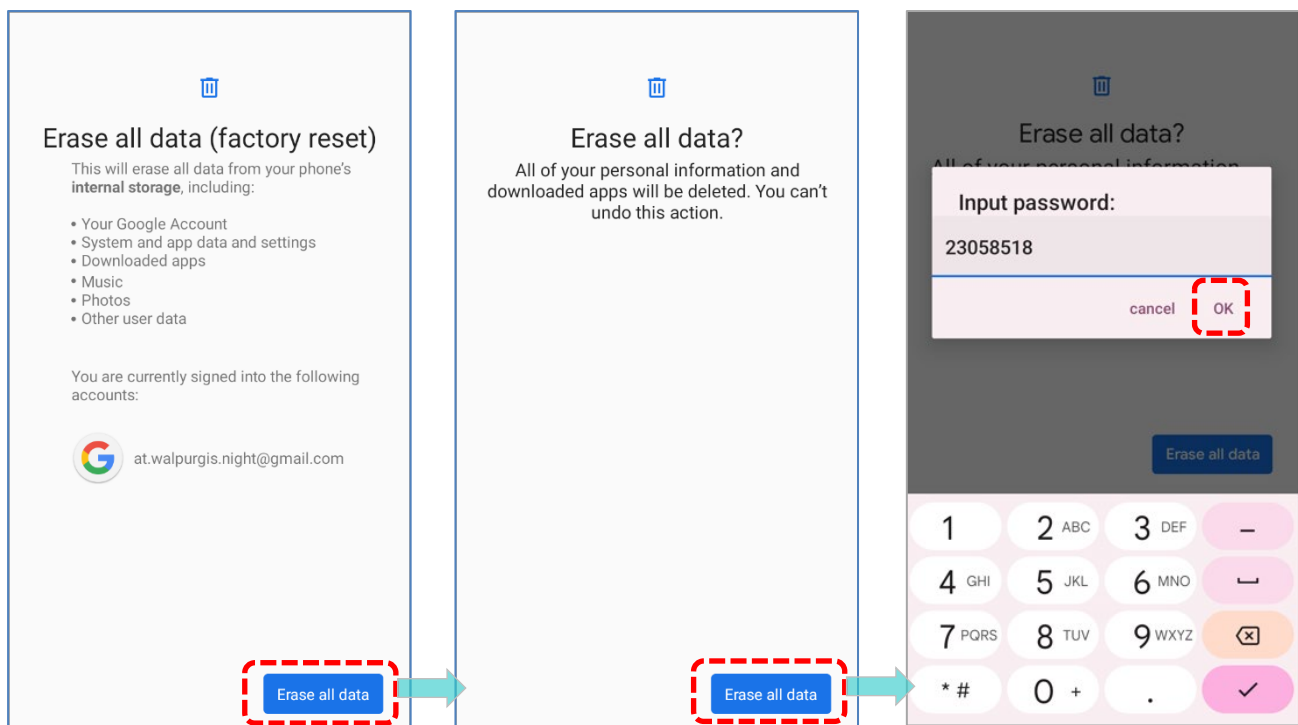
- 1) Go to [App Drawer \(All Apps\)](#) | **Settings**  | **System**  .



2) Tap on **Reset options**  and **Erase all data (factory reset)**.



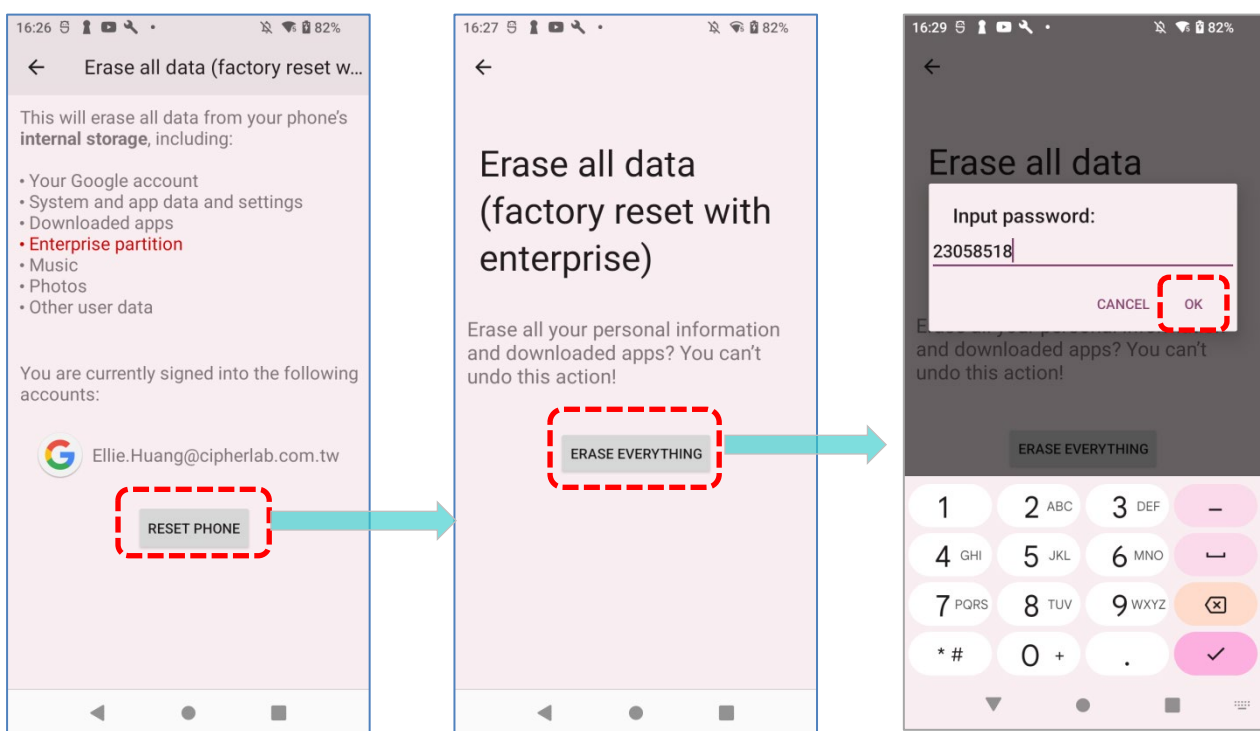
3) Confirm the action by tapping on the button "**Erase all data**" and input the verification code (Please contact with support@cipherlab.com.tw to obtain your verification code). Finally, tap **OK** to perform a factory reset.



3.7.2. ERASE ALL DATA (FACTORY RESET WITH ENTERPRISE)

Go to [App Drawer \(All Apps\)](#) | **Settings**  | **System**  | **Reset options**  | **Erase all data (factory reset with enterprise)**.

Confirm the action by tapping on the button “**Erase all data**” and input the verification code (Please contact with support@cipherlab.com.tw to obtain your verification code), and tap **OK** to perform a factory reset.



Please note that “**Erase all data (factory reset with enterprise)**” will erase all the data including the settings backed up in enterprise partition by **ADC (Android Deployment Configurator)**.

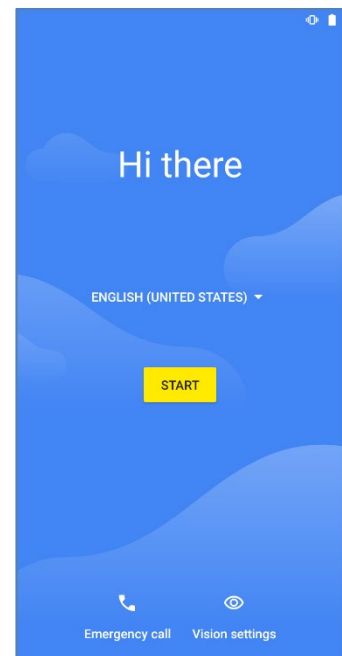
3.7.3. WELCOME WIZARD

As the mobile computer boots up for the first time after the reset, the Welcome wizard will run you through setting up the environment as well as restoring apps and data. During setup, you can tap **SKIP** to continue to the next step (you can finish the respective settings in [App Drawer \(All Application\)](#) | **Settings**  at any time).

Please note that to have the backed up data in your Google Account restored right in this stage, log in to a Wi-Fi network when prompted to **Connect to Wi-Fi**.

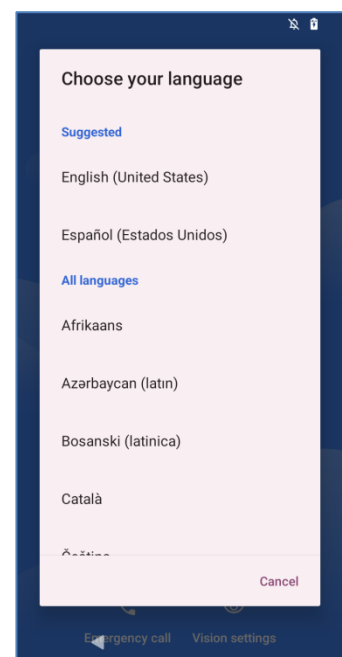
- **Step 1-1**

Tap on “**START**” to proceed, or tap to enter “**Choose your language**” / “**Vision Settings**”.



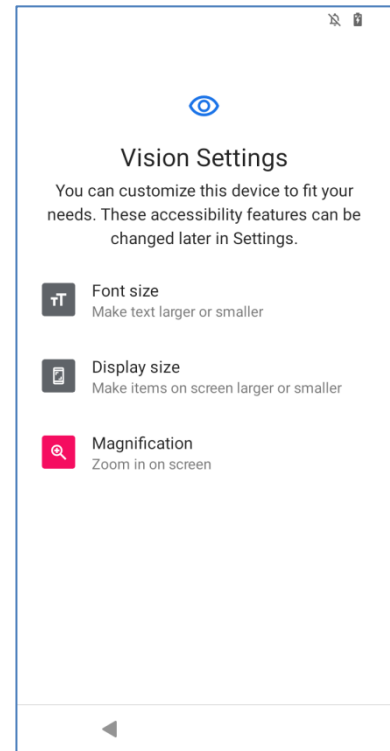
- **Step 1-2**

Customize your device if needed.



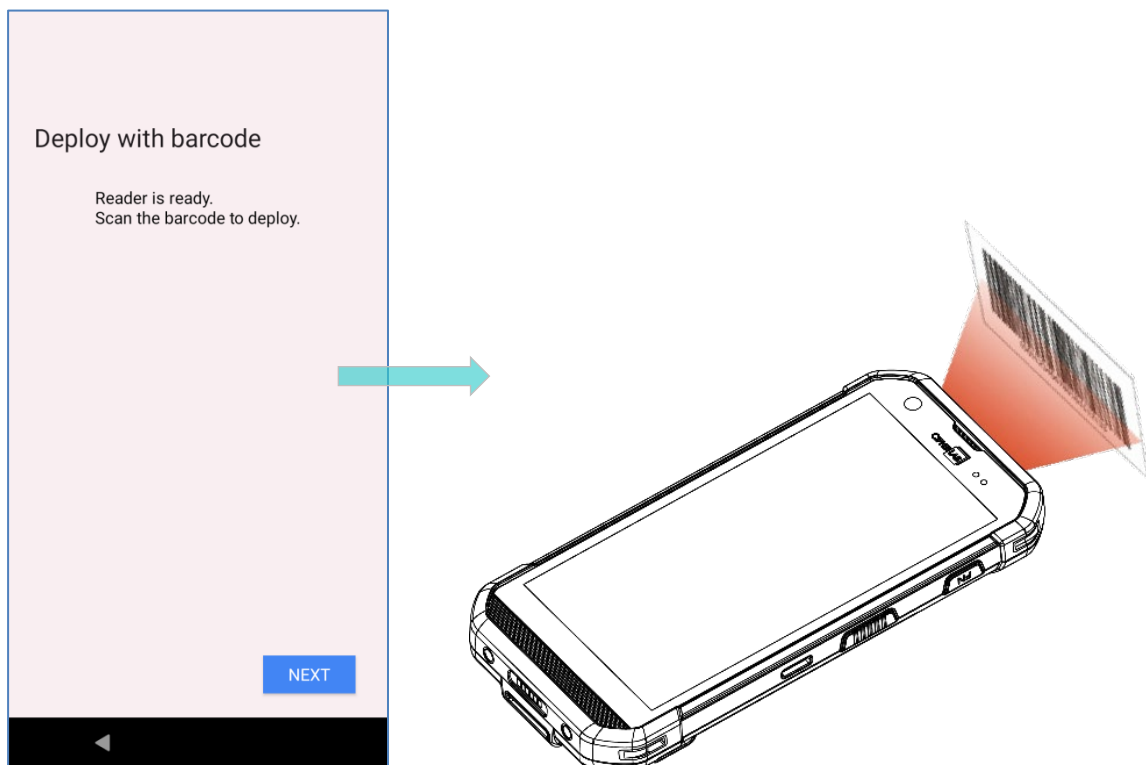
▪ **Step 1-3**

Select your system language.



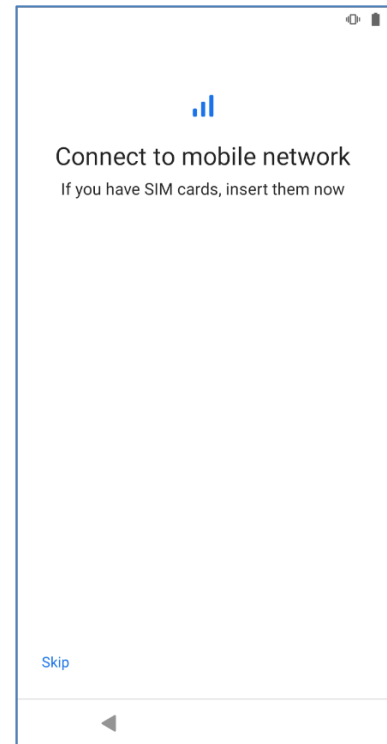
▪ **Step 2**

Press the trigger to scan the settings barcode generated by ADC (Android Deployment Configurator) to deploy the settings, or tap on “**Next**” to continue setting up by Welcome Wizard.



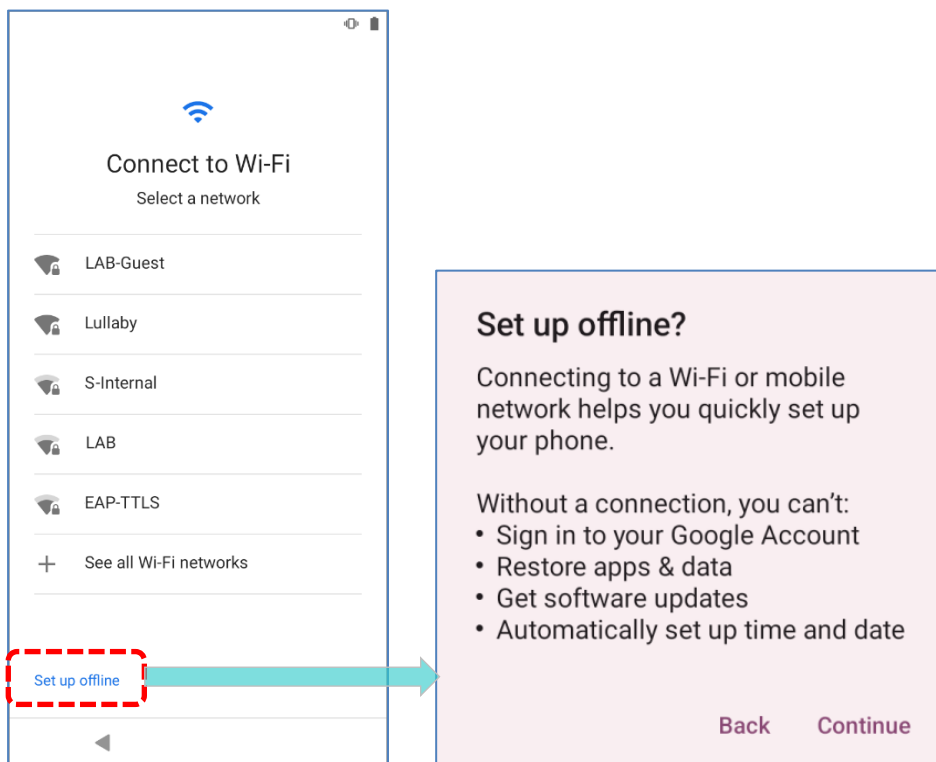
■ **Step 3**

Insert your SIM to connect to mobile network, or tap on **“SKIP”** to the next step.



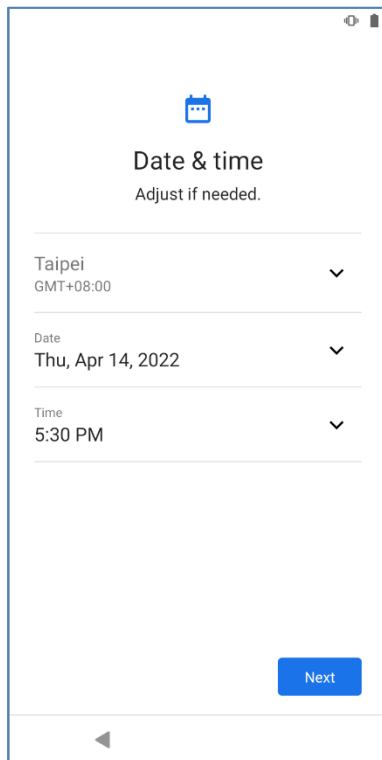
■ **Step 4**

Select a Wi-Fi network to log in or tap on **“Set up offline”** and confirm with **“CONTINUE”** to the next step. If logged in a Wi-Fi network, you will be further asked to sign in your Google Account to restore data.



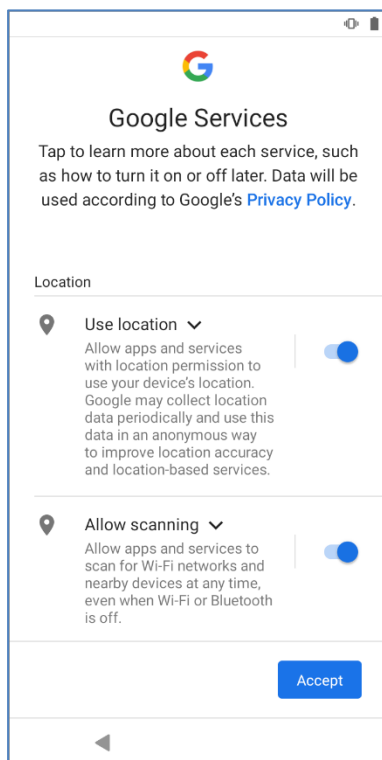
▪ **Step 5**

Set date and time, or merely skip this step by tapping “**NEXT**”.



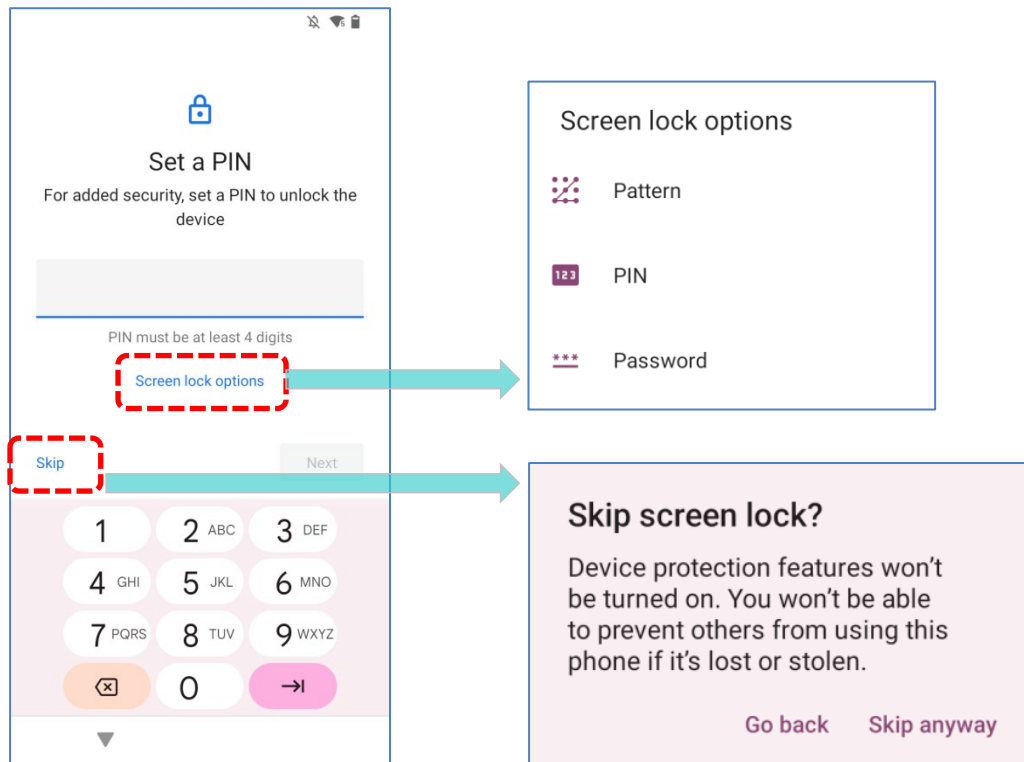
▪ **Step 6**

Choose Google services that you want to be enabled, and tap “**ACCEPT**” to proceed.



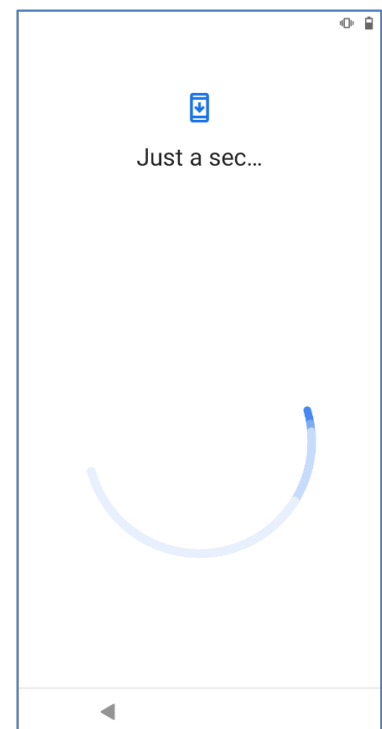
- **Step 7**

Set up the protection methods to protect this device, or merely “**SKIP**” this step.



- **Step 8**

It takes few seconds to complete the settings.



Once the initial setup is completed, the **Home** app screen shows up. Apps and settings will be restored in the background.

Chapter 4

WIRELESS RADIOS

The Wi-Fi module integrated on the mobile computer lets you configure and connect to network wirelessly.

IN THIS CHAPTER

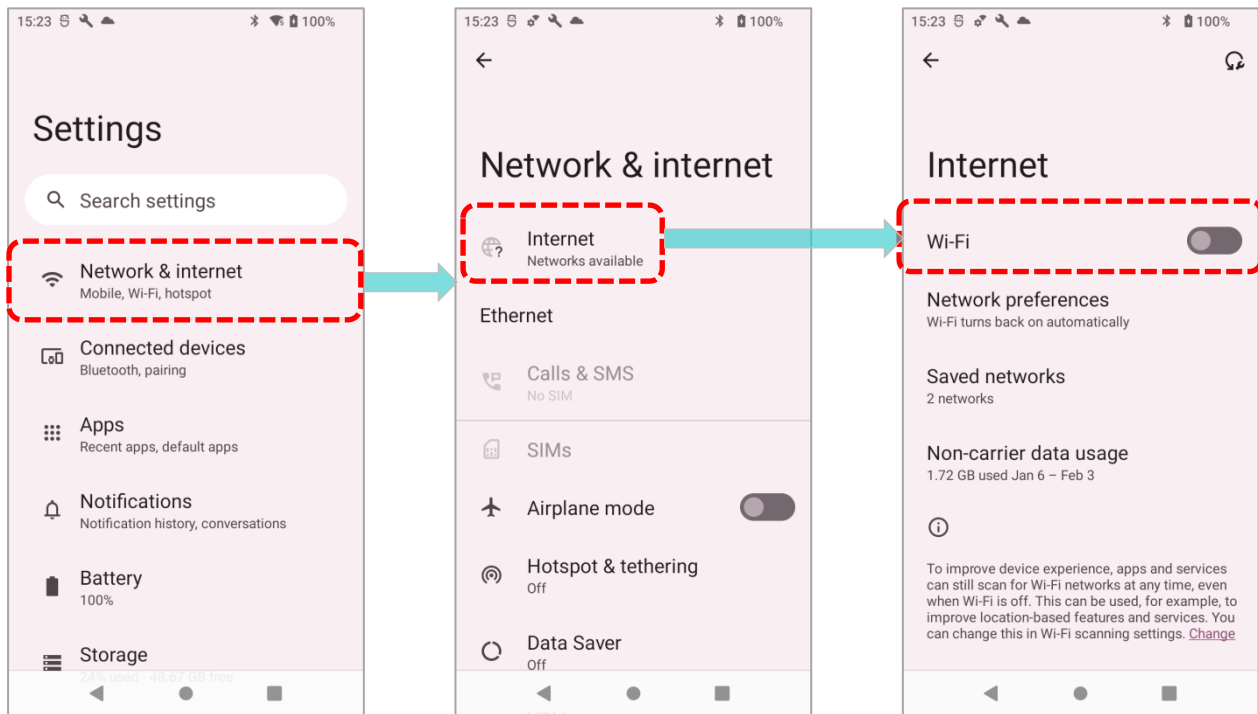
- 4.1. Use Wireless Local Area Network (Wi-Fi)..... 140
- 4.2. Use Bluetooth..... 153
- 4.3. Use Near Field Communications..... 162

4.1. USE WIRELESS LOCAL AREA NETWORK (WI-FI)

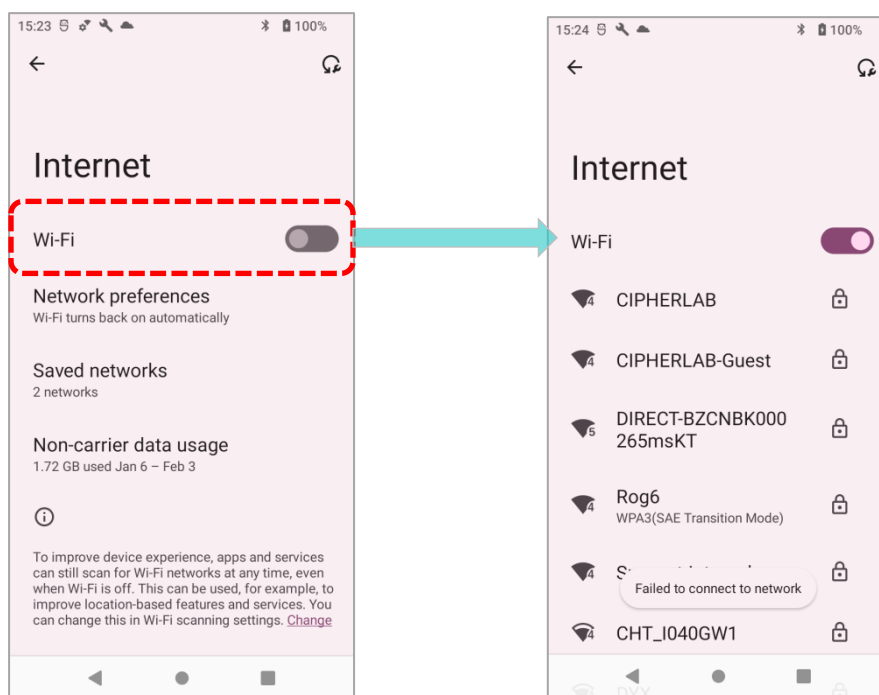
4.1.1. CONNECT TO WI-FI NETWORK

To power on Wi-Fi:

- 1) Go to [App Drawer](#) | **Settings**  | **Network & Internet** .



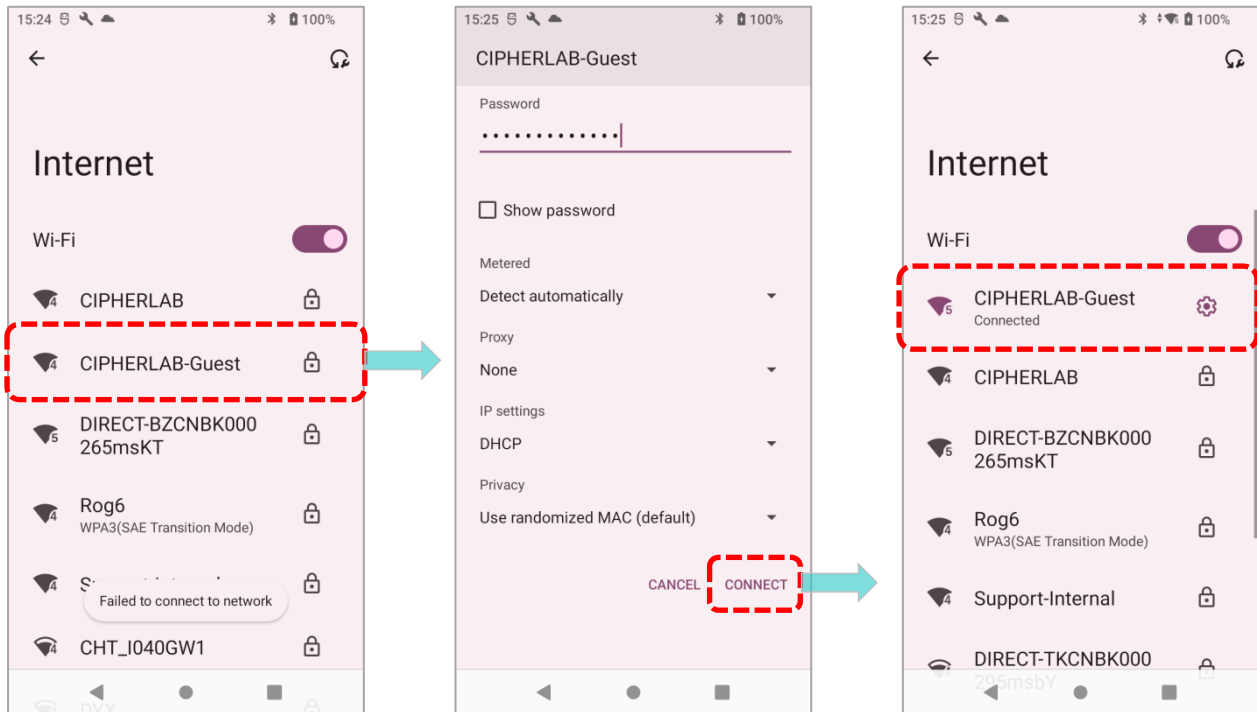
- 2) Tap the Wi-Fi switch to scan for available networks.



3) Select a network to connect.

If the network is an open one, the mobile computer will attempt to connect to it directly. When connected, the status will change to show "**Connected**".

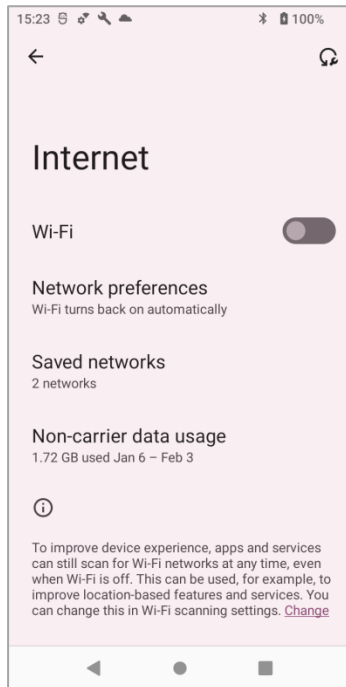
If the network is a secured one, you need to enter the password for the connection.



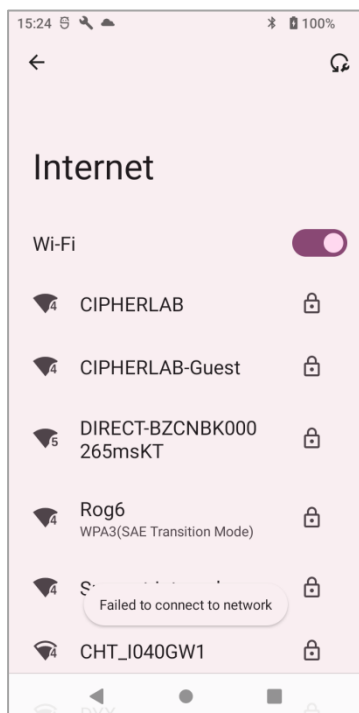
4.1.2. MANUALLY ADD WI-FI NETWORK

If the network you would like to connect to does not broadcast its SSID, or if the network is out of range, you may add it manually.

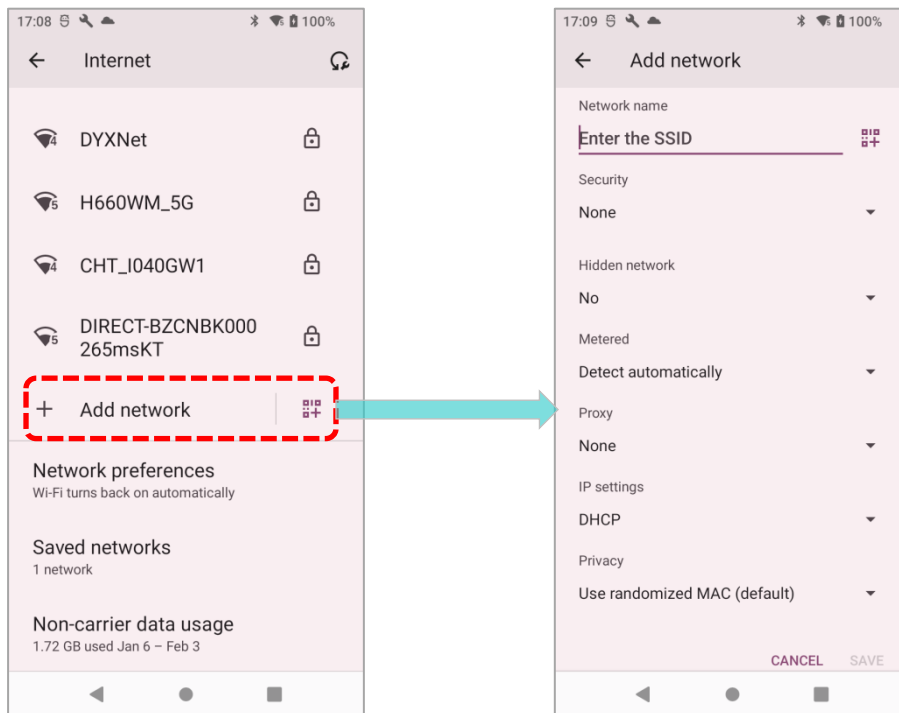
- 1) Go to [App Drawer](#) | **Settings**  | **Network & Internet** .



- 2) Tap the Wi-Fi switch to turn it on.



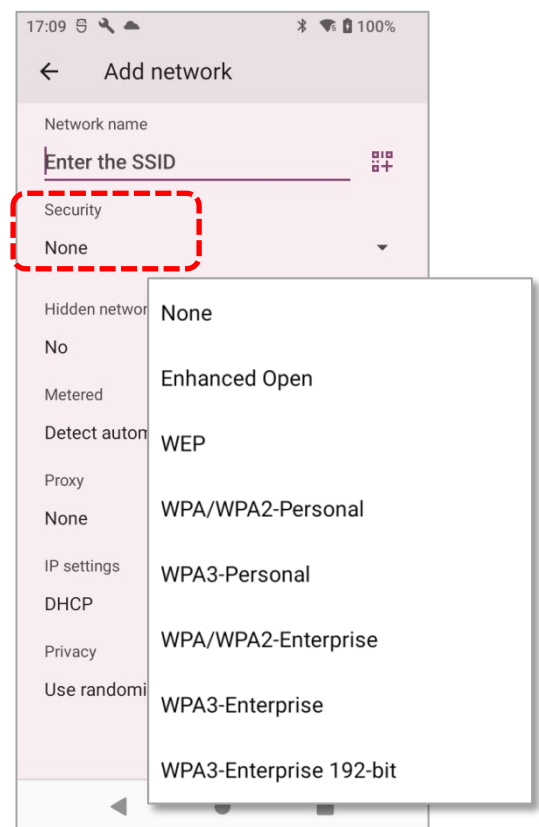
3) Scroll down to the bottom of the page, and select “**Add network**”.



4) On “**Add network**” page, enter the name of the network in the **Network name** field, and select a security method.

- **Enhanced Open** is for public networks and provides no authentication.
- For **WEP**, **WPA/WPA2-Personal**, and **WPA3-Personal** connections:
Enter the required password and tap **Save**.
- For **WPA/WPA2/WPA3-Enterprise** and **CKKM** connections:
Select the **EAP method** in the drop-down box (PEAP, TLS, TTLS, PWD, SIM, AKA), and the **Phase 2 authentication** in the drop-down box (None, MSCHAPV2, GTC). Select a **CA certificate** and User certificate if required.

Enter your username in the Identity box and the password in the Password box if required.



Note:

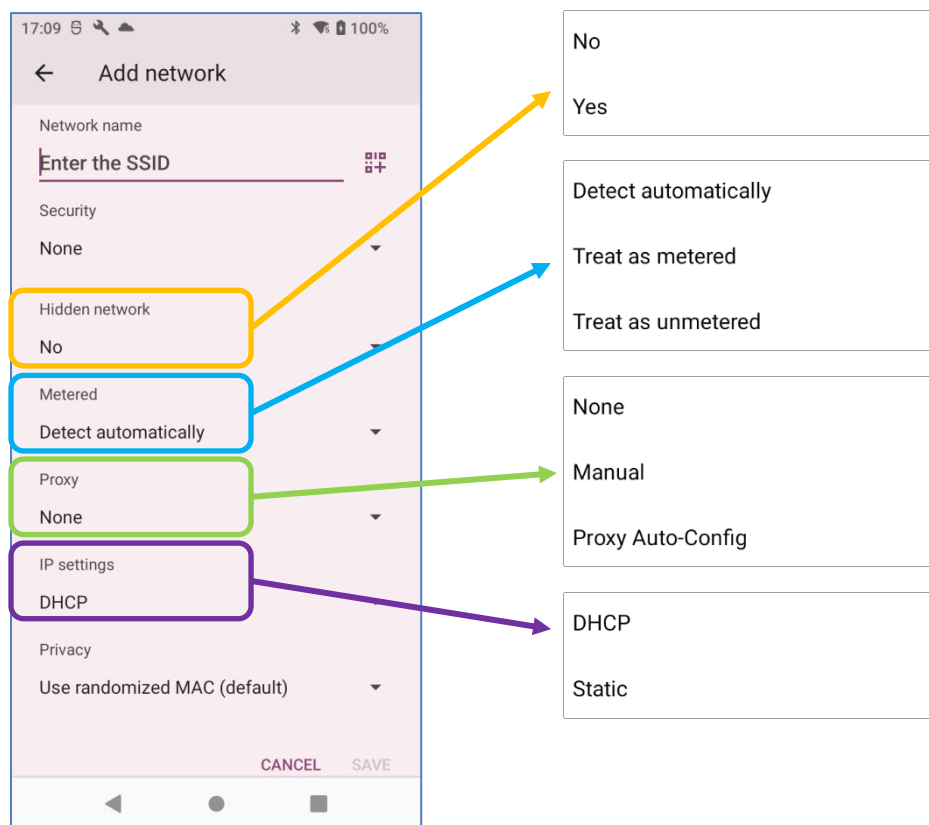
Certificates may be installed under:

[App Drawer](#) | [Settings](#)  | [Network & internet](#)  | [Internet](#)  | [Network preferences](#) | [Install certificates](#).

The mobile computer supports the following certificate file extensions:

File Extension Type	Standard Certificate	Key Stored
Description	DER-encoded X.509 certificates saved in .crt or .cer files.	X.509 certificates saved in PKCS#12 key store files with a .p12 or .pfx extension.
How to install	change the extension to .crt or .cer.	Change the extension to .p12 or .pfx.

- 5) If necessary, select the **Proxy** server and **IPv4** settings. By default, no proxy is set and IP settings are set to **DHCP**.

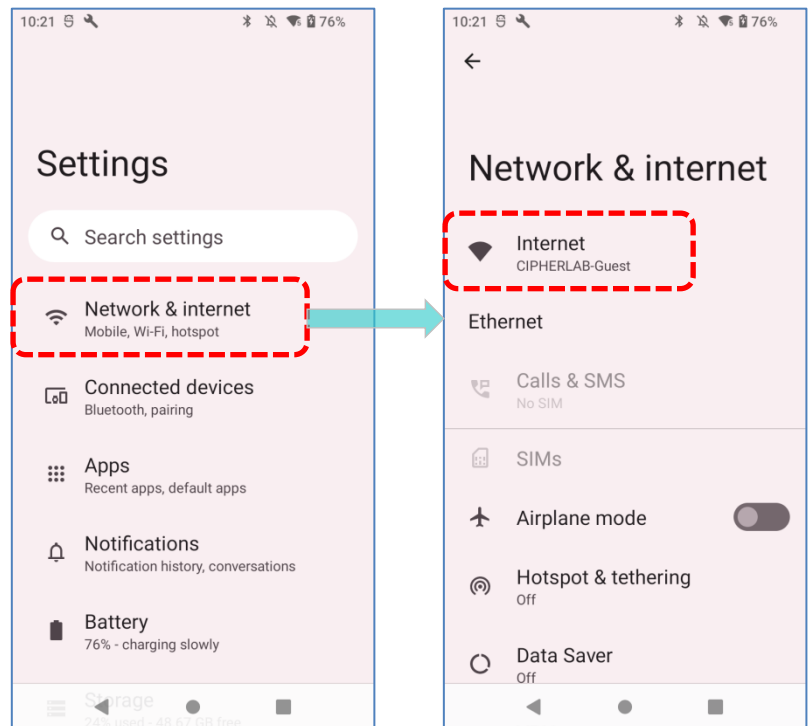


4.1.3. WI-FI PREFERENCE

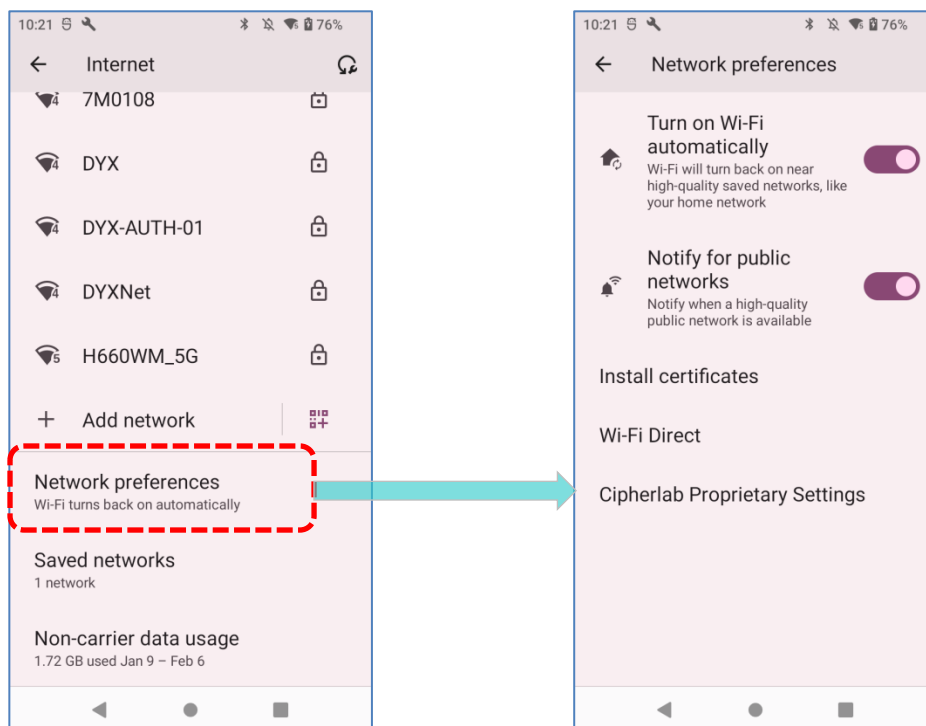
To access **Network Preferences**:

- 1) Go to [App Drawer \(All Apps\)](#) |

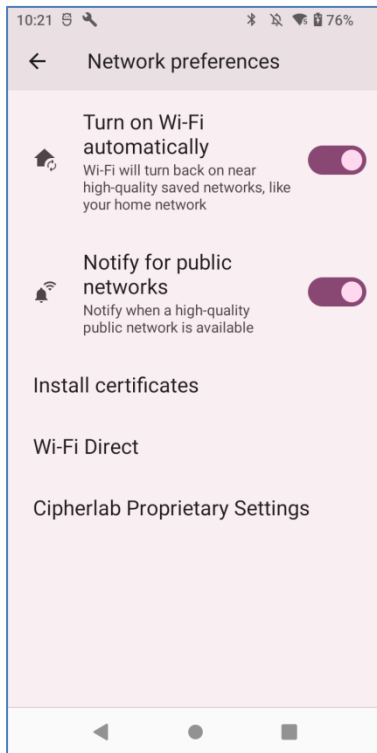
Settings  | **Network & internet**  | **Internet**  .



- 2) Scroll down to the bottom of the page to find "**Network preferences**" and enter it.



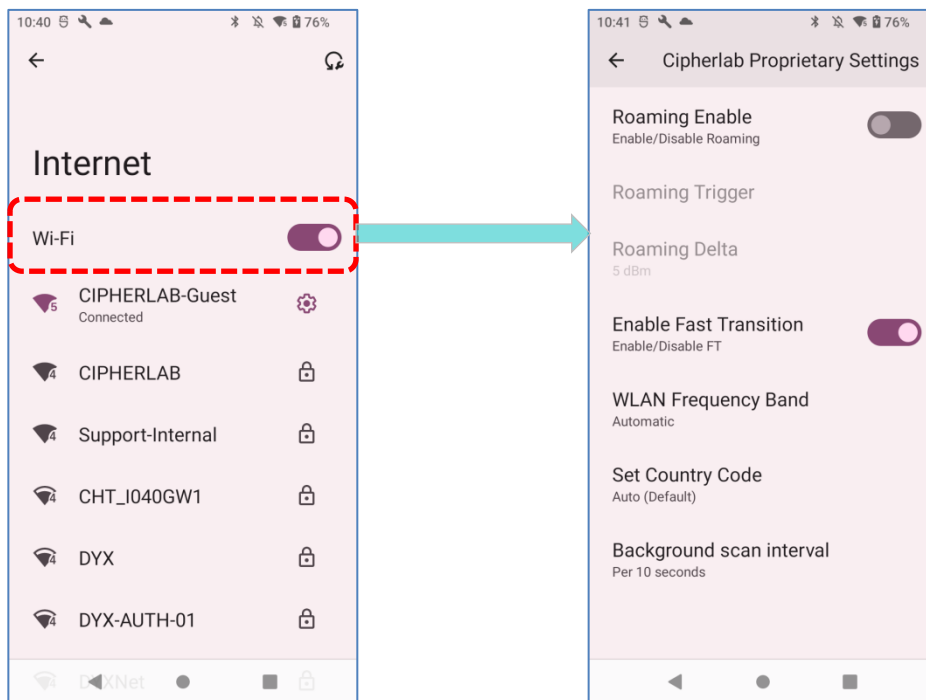
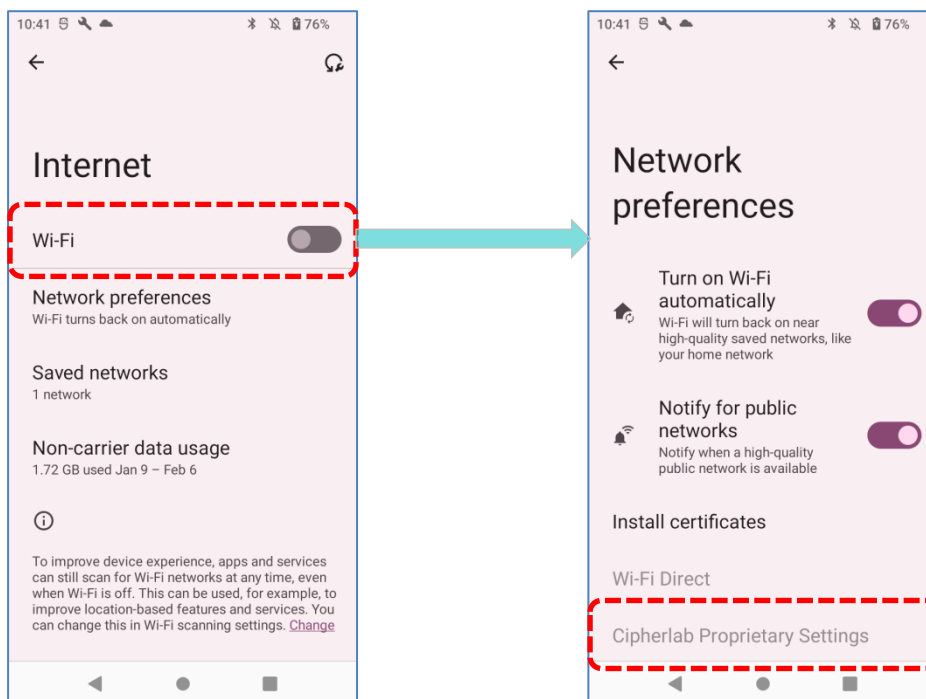
The available settings are as below:



Item	Description
Turn on Wi-Fi automatically	Even you've turned off Wi-Fi, the device will automatically turn on your Wi-Fi connection when there's the saved network with a strong signal nearby.
Notify for public networks	Notify when a high-quality open network is available.
Install certificates	Installs certificates recently downloaded or placed on the internal storage.
Wi-Fi Direct	Enables your device to connect with a Wi-Fi Direct-capable device.
Cipherlab Proprietary Settings	Tap to enter the page for further settings. Please refer to Cipherlab Proprietary Settings for details.

CIPHERLAB PROPRIETARY SETTINGS

To configure the grayed out options listed on “**Cipherlab Proprietary Settings**”, Wi-Fi must be turned on. Please tap on the switch to turn Wi-Fi on or off.

Wi-Fi is ON**Wi-Fi is OFF**

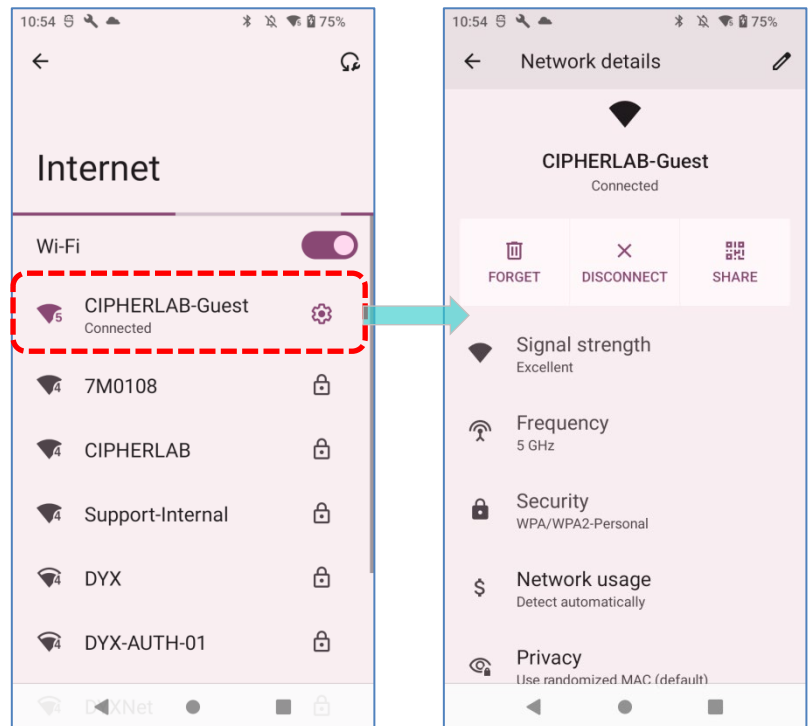
Item	Description
Roaming Enable	Select whether to enable Wi-Fi roaming or not.
Roaming Trigger	The signal strength when triggering Wi-Fi roaming. The higher value means the sensitivity of triggering roaming is higher.
Roaming Delta	The qualification for roam candidates. The higher value means the signal strength of candidate APs should be higher than the current connected AP.
Enable Fast Transition	Enable 802.11r Fast Transition feature.
WLAN Frequency Band	Select Automatic , 5 GHz only , or 2.4 GHz only for your Wi-Fi frequency band. The default setting is Automatic.
Set Country Code	Select the Wi-Fi country code for your device.
Background Scan Interval	The frequency of background scan when the device does not connect the internet. The shorter time means the scanning frequency is higher.


4.1.4. MODIFY WI-FI NETWORK

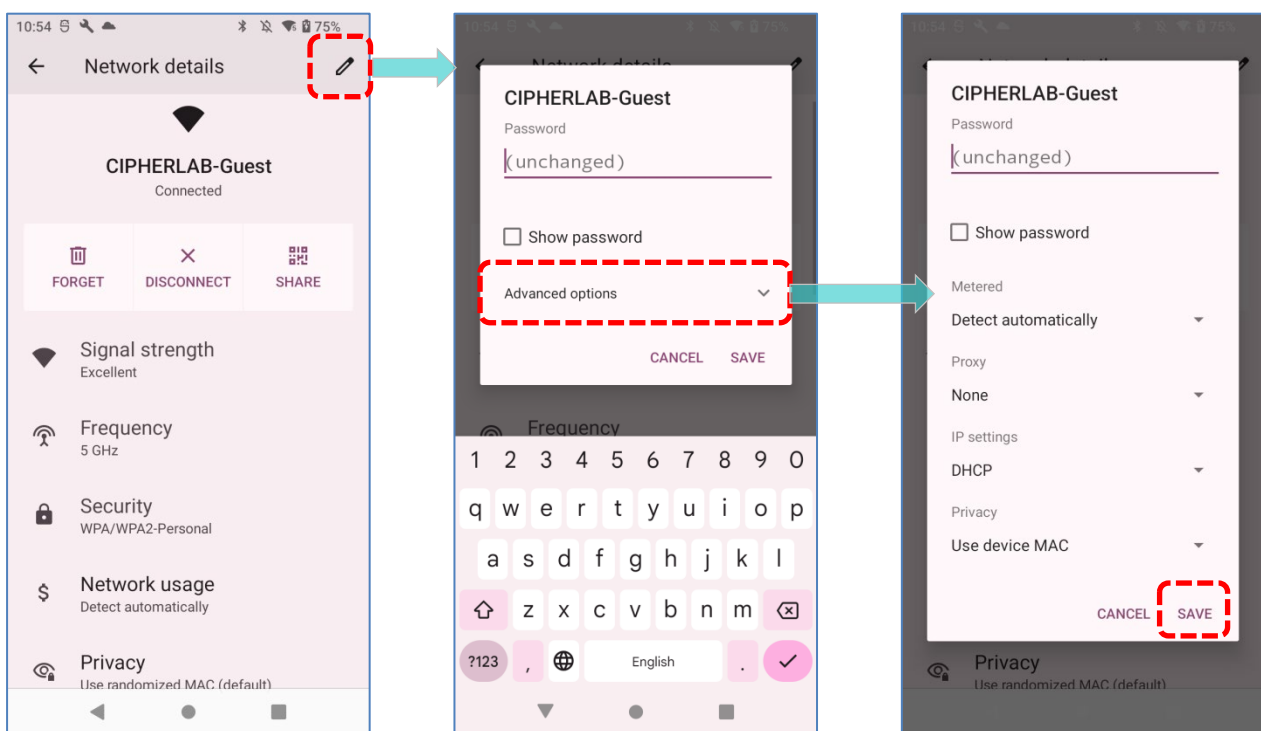
MODIFY THE CONNECTED NETWORK

To change the settings for a connected network:

- 1) Tap a connected network in the Wi-Fi hotspot list to enter its "Network details" page.



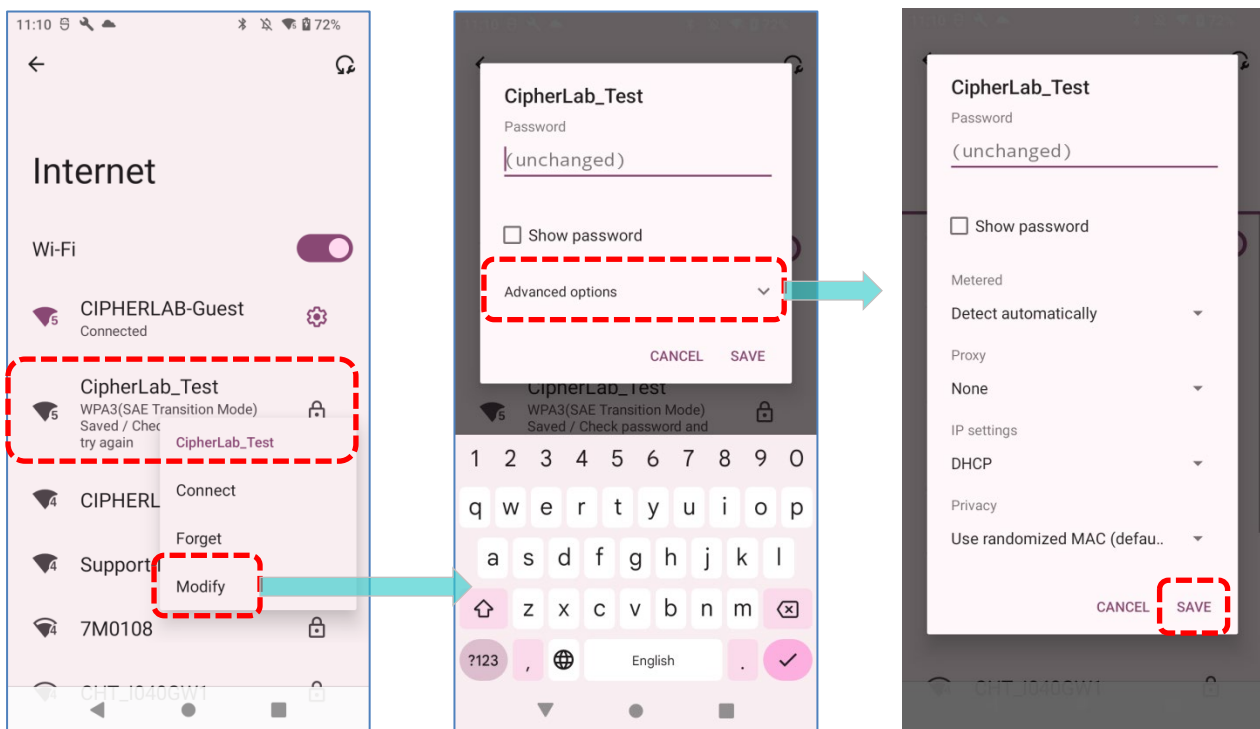
- 2) Tap **Edit** button  to open the pop-up menu, modify the network settings, and **Save**.



MODIFY THE SAVED NETWORK

To change the settings for a saved network:

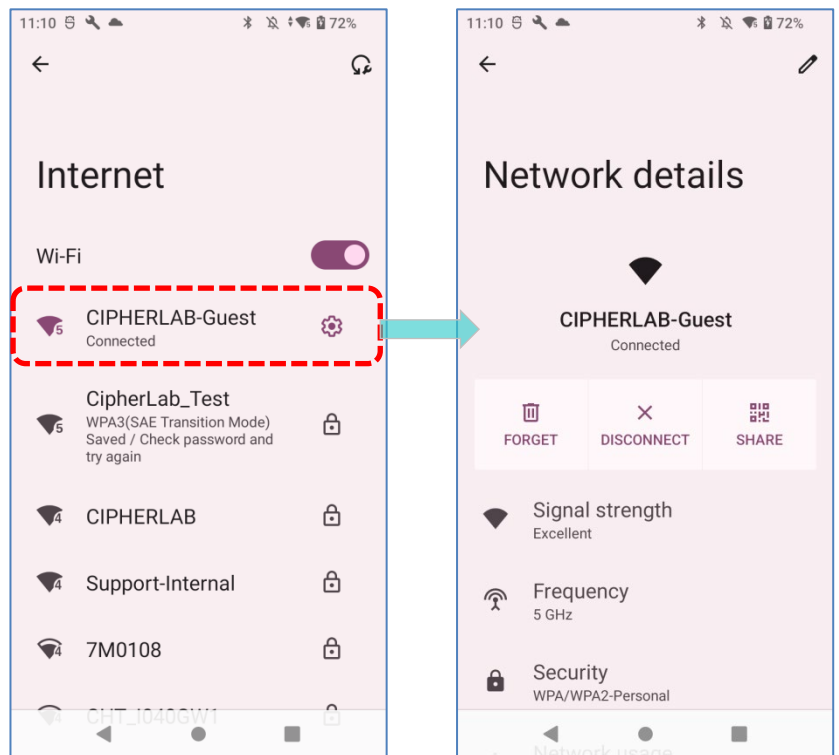
- 1) Tap and hold a saved network in the Wi-Fi hotspot list.
- 2) Tap **Modify** in the pop-up menu.
- 3) In the dialog box that opens, modify the network settings, and tap **Save**.



4.1.5. DISCONNECT WI-FI NETWORK

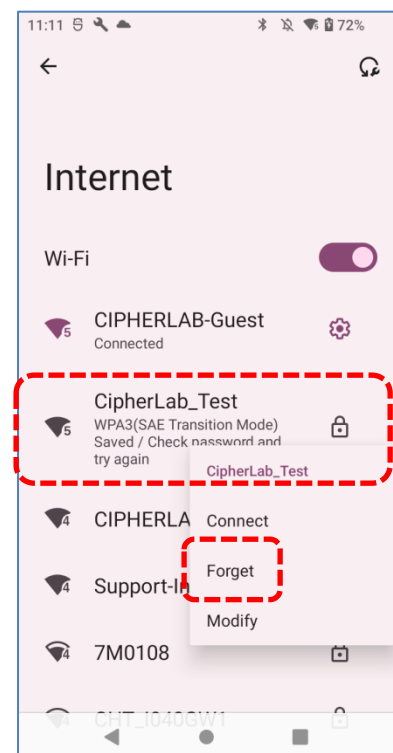
To disconnect a connected network:

- 1) Tap a connected network in the Wi-Fi hotspot list to enter its "Network details" page.
- 2) Tap **FORGET** or **DISCONNECT** to disconnect.



To forget a saved network:

- 1) Tap and hold a saved network in the Wi-Fi hotspot list.
- 2) Tap **Forget** in the pop-up menu.



4.2. USE BLUETOOTH

The RS36 mobile computer lets you configure Bluetooth settings and manage Bluetooth services provided on remote devices.

4.2.1. BLUETOOTH PROFILES


Bluetooth Profiles Supported

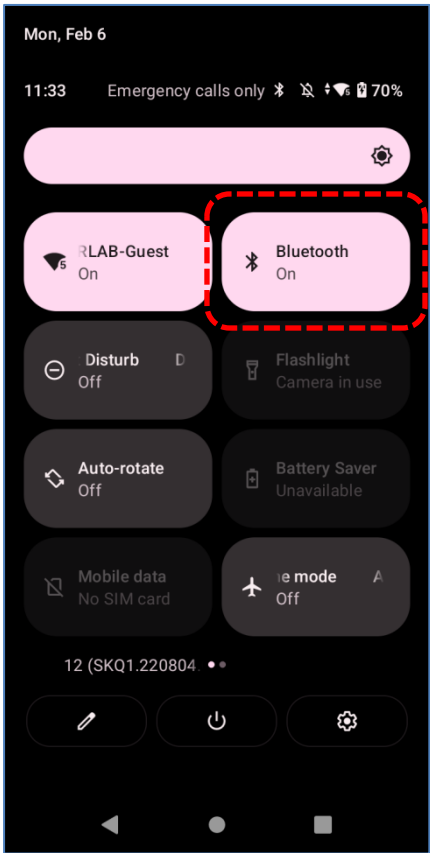
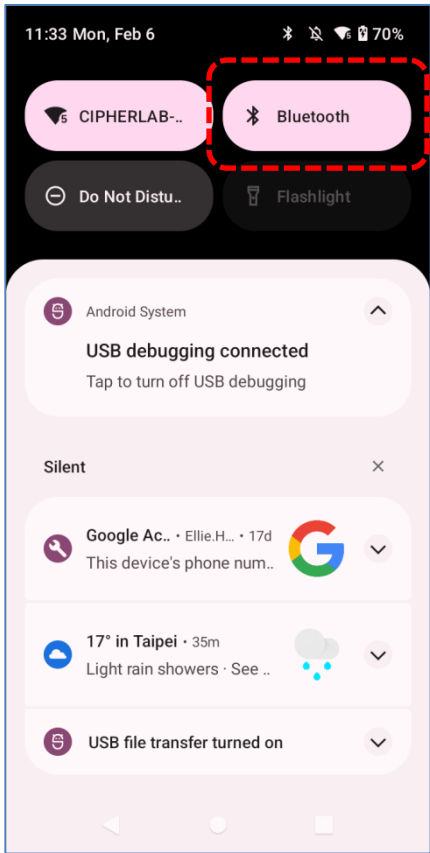
Generic Access Profile	(GAP)	For device discovery and authentication.
Service Discovery Access Profile	(SDAP)	Discovers services on remote devices.
Headset Profile	(HSP)	Describes how a Bluetooth enabled headset should communicate with a Bluetooth enabled device
Serial Port Profile	(SPP)	Sets up a virtual serial port to connect two Bluetooth devices.
Human Interface Device Profile	(HID)	Provides a low latency Bluetooth connection with keyboards, pointing devices, etc.
Object Push Profile	(OPP)	Pushes and pulls objects to and from a push server.
Hands-Free Profile (AG1.5)	(HFP)	Allows using a hands-free device to place and receive calls.
Hands-Free Profile	(HFP 1.6)	Allows using a hands-free device to place and receive calls.
Advanced Audio Distribution Profile	(A2DP)	Streams stereo-quality audio to a wireless headset or speaker.
Audio/Video Remote Control Profile	(AVRCP)	Allows controlling of television and Hi-Fi equipment.
Generic Object Exchange Profile	(GOEP)	Provides a basis for other data profiles.
Personal Area Networking Profile	(PAN)	Uses Bluetooth Network Encapsulation Protocol for Bluetooth transmission.



Bluetooth Profiles Supported


General Audio/Video Distribution Profile	(GAVDP)	Provides a basis for A2DP and VDP.
Phone Book Access Profile	(PBAP)	Transfers Phone Book Objects to a car kit to display the information of an incoming call received on the mobile computer, or initiate a call.
Out of band and Near Field Communications	(OOB, NFC)	Manages the pairing process by using NFC.
Symbol Serial Interface Profile	(SSI)	Supports additional scanner.
Dial-up Networking Profile	(DUN)	Provides a standard to access the Internet and other dial-up services over Bluetooth.
HID over GATT Profile	(HOGP)	Defines the communication between a BLE (Bluetooth Low Energy) device and a host device.
Generic Attribute Profile	(GATT)	Defines how BLE (Bluetooth Low Energy) devices transfers data.

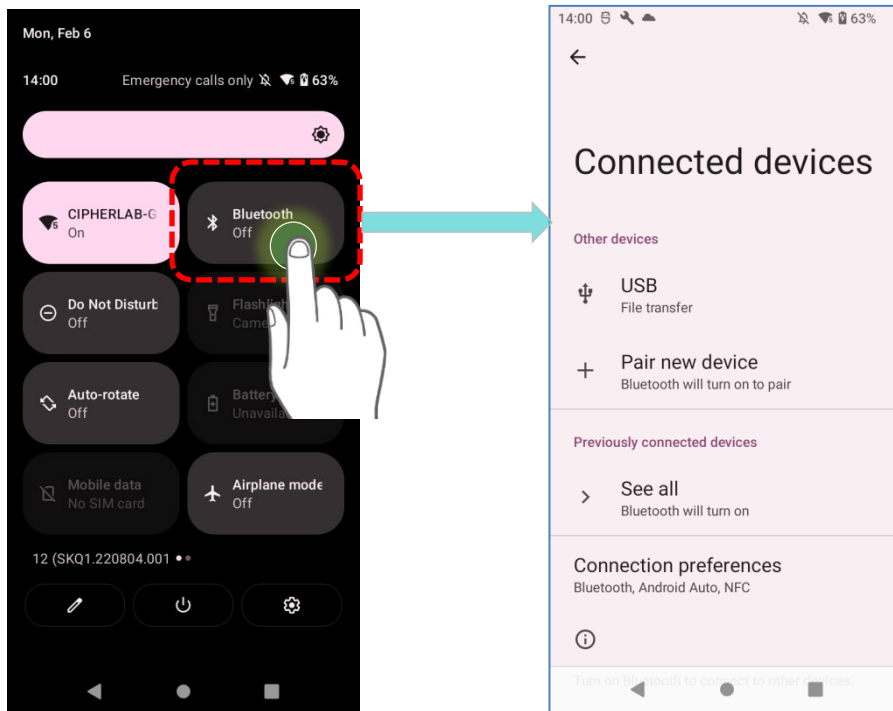
4.2.2. TURN ON BLUETOOTH

Bluetooth is turned off by default, and you can turn it on or off by tapping the Bluetooth icon  on **Quick Settings Menu** or **Quick Settings Panel**:






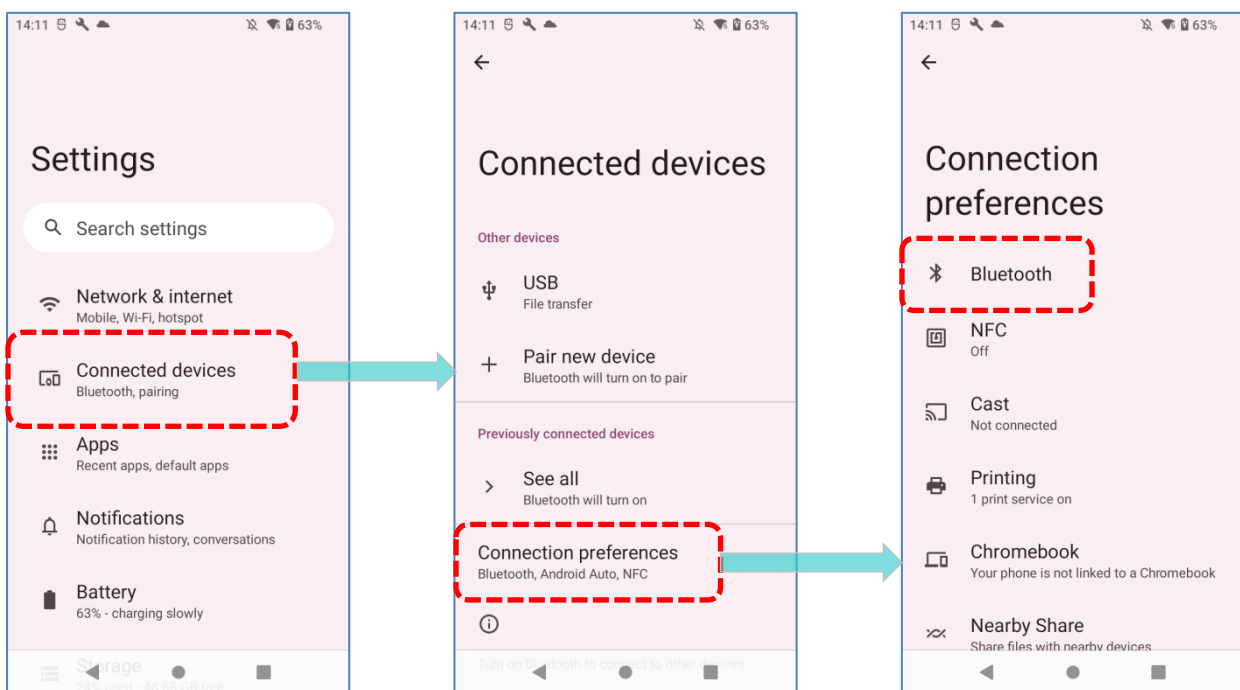
Icon	Description
	Bluetooth is OFF .
	Bluetooth is ON .

To enter “**Connected devices**” page for further Bluetooth settings, please long press the Bluetooth icon  on **Quick Settings Menu** or **Quick Settings Panel**:

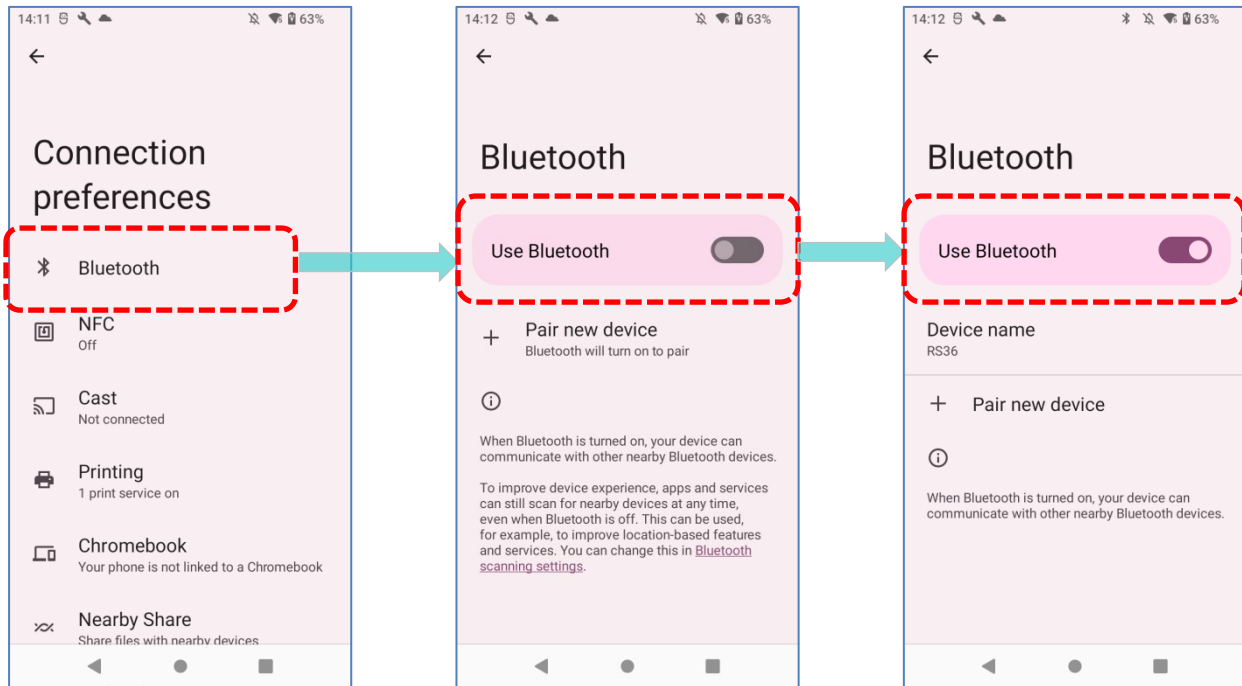


OR

- 1) Go to [App Drawer \(All Application\)](#) | **Settings**  | **Connected devices**  | **Connection preferences** | **Bluetooth** .



- 2) Tap the switch to turn on this function while enabling the Bluetooth visibility of this device.






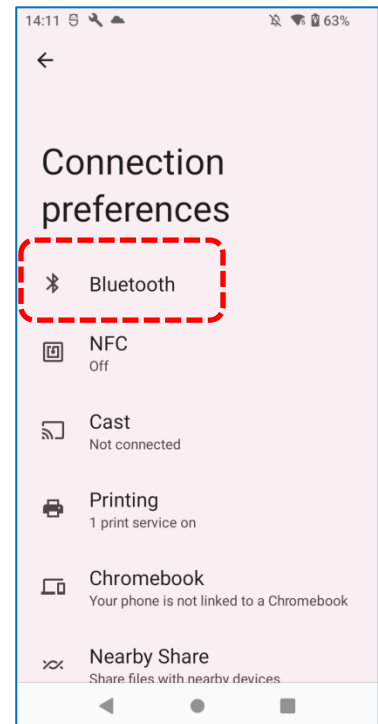
Note:

Having been turned on, Bluetooth is active even when the mobile computer is suspended. However, if the power mode is switched to Airplane Mode, Bluetooth power will be turned off regardless of the settings.

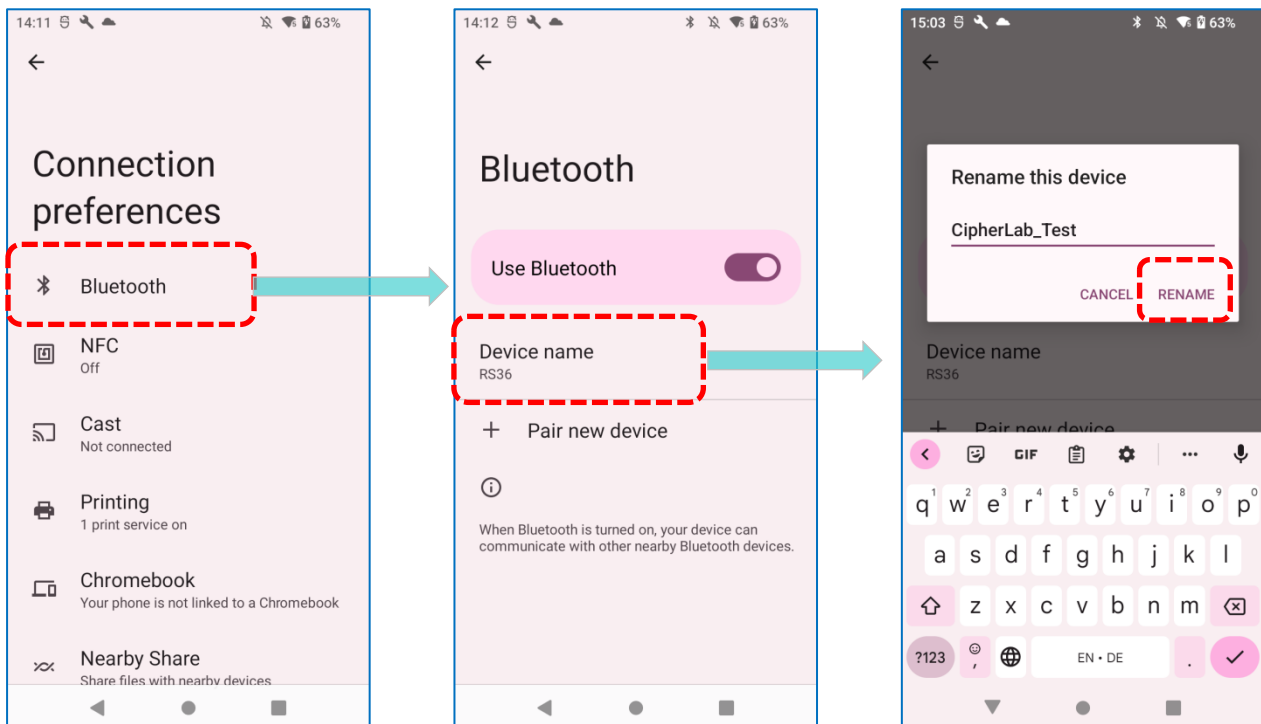
4.2.3. CHANGE BLUETOOTH NAME

To change the Bluetooth name of this mobile computer:




- 1) Go to [App Drawer \(All Application\)](#) | **Settings**  | **Connected devices**  | **Connection preferences** | **Bluetooth** .



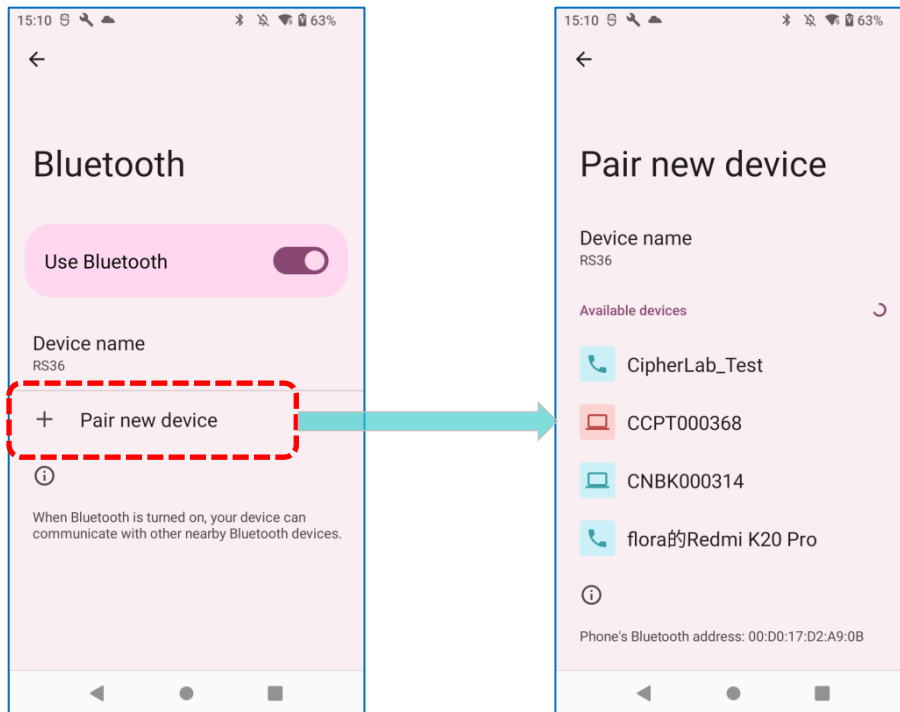
- 2) Tap **"Device name"** and the pop-up window **"Rename this device"** shows up.
- 3) Enter a new name in the field and tap **RENAME**.



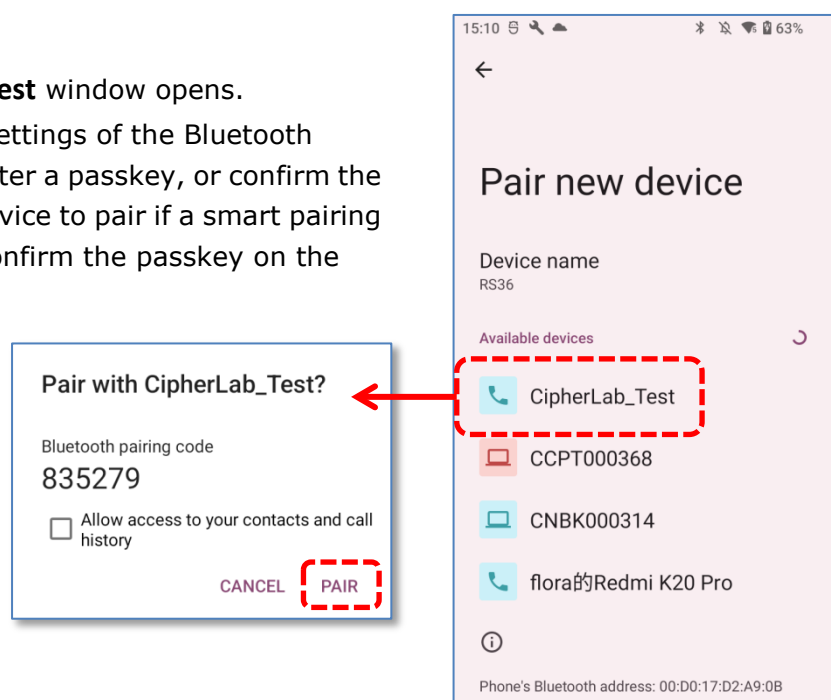
4.2.4. PAIR BLUETOOTH DEVICES



- 1) Go to [App Drawer](#) | **Settings**  | **Connected devices**  | **Connection preferences** | **Bluetooth** .

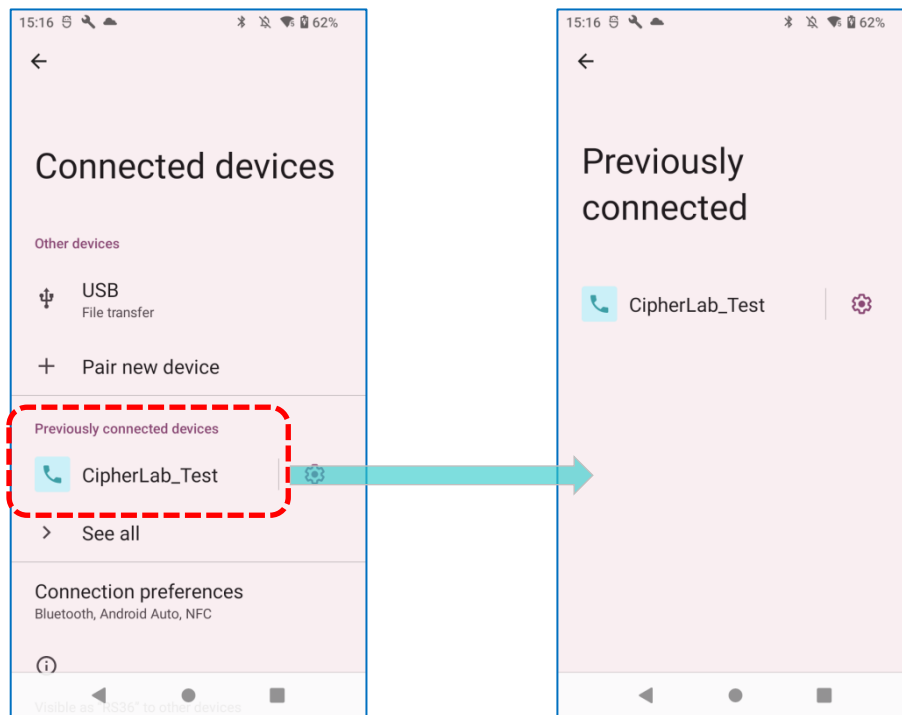
Tap the switch to **On** to scan for available Bluetooth devices nearby. Scroll through the list and tap the device you would like to pair.



- 2) The **Bluetooth pairing request** window opens.
Depending on the pairing settings of the Bluetooth device, you may need to enter a passkey, or confirm the assigned passkey on the device to pair if a smart pairing method is applied. Enter/confirm the passkey on the device to pair.



- 3) Once pairing is done, you can find the Bluetooth device in [App Drawer](#) | **Settings**  | **Connected devices**  | **Previously connected devices**.




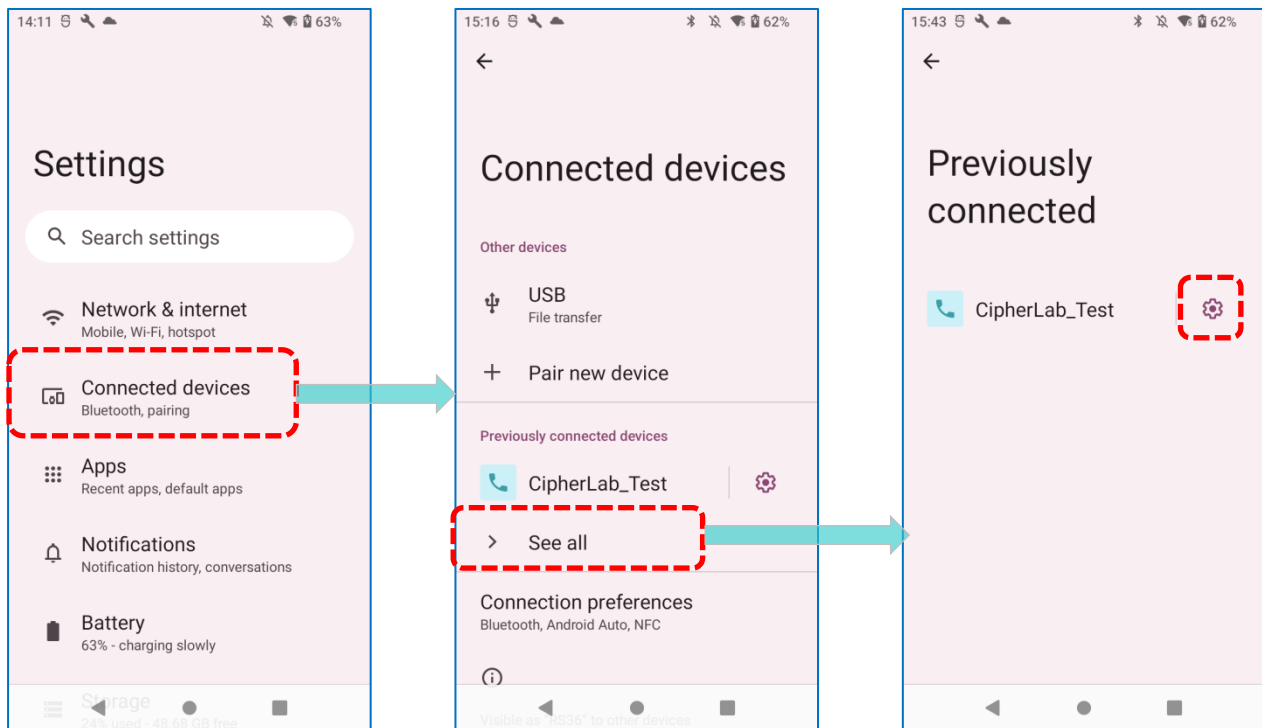
Note:

If the device you would like to pair with is not listed, make sure Bluetooth visibility is enabled on the device.

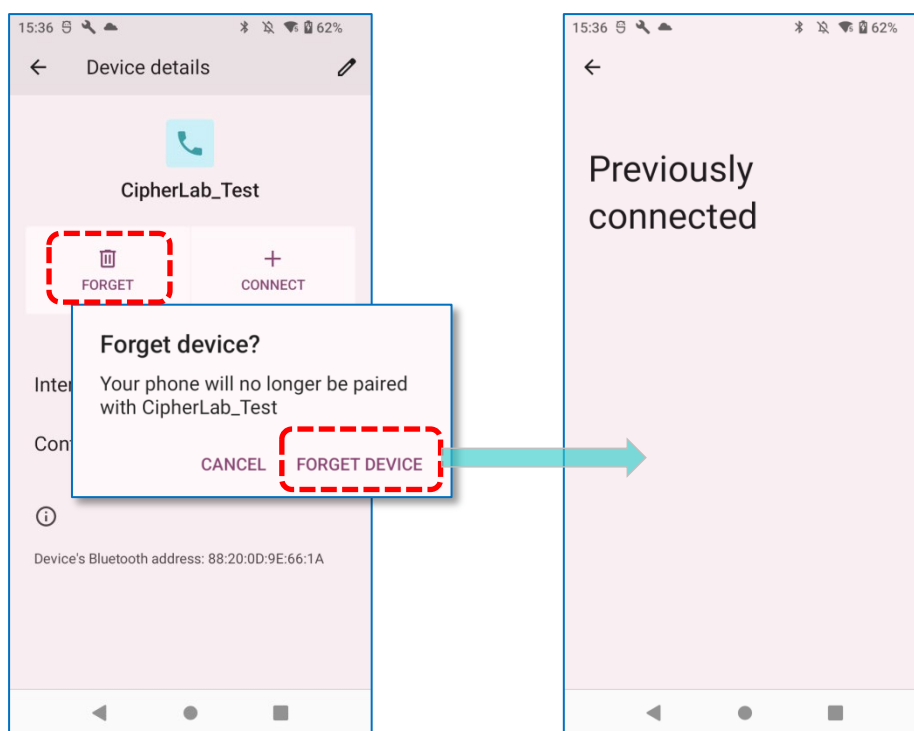
4.2.5. UNPAIR BLUETOOTH DEVICE

To unpair a paired device:

- 1) In the **Previously connected devices** list, tap the settings button  next to the paired device.







- 2) On the **Device details** screen, tap **FORGET**.

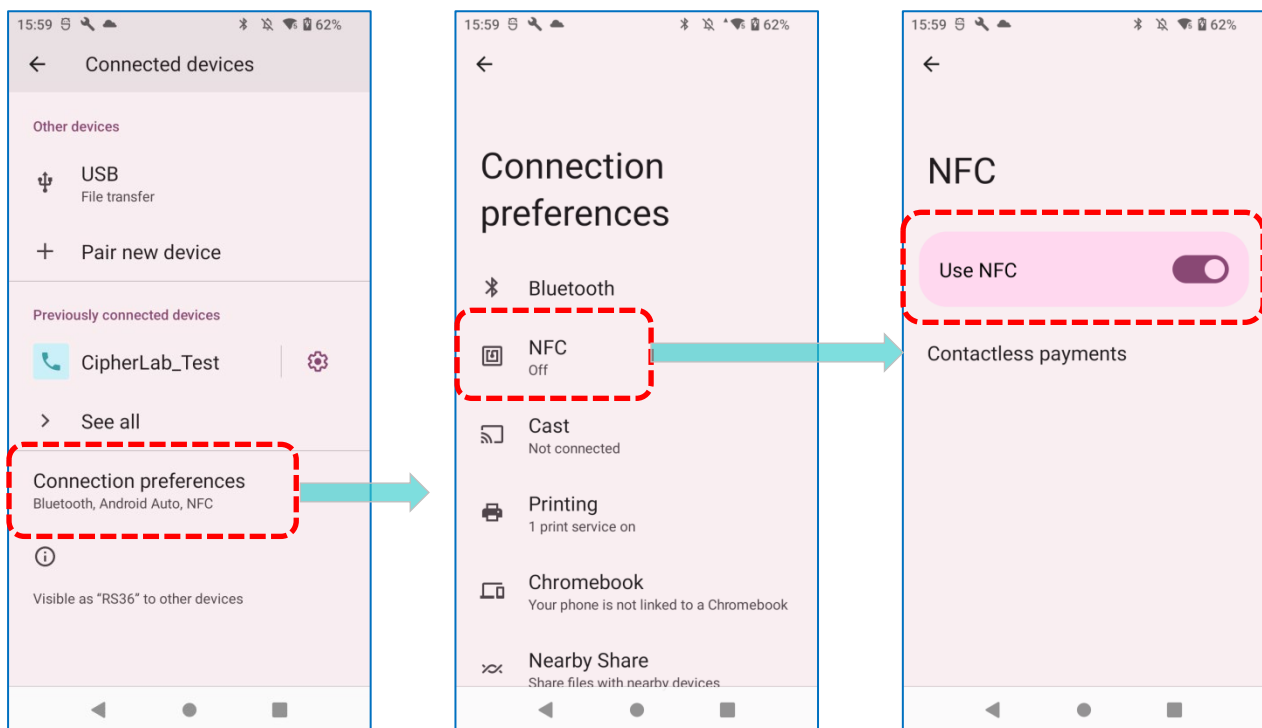


4.3. USE NEAR FIELD COMMUNICATIONS

Near field communications (NFC) uses close proximity (4 cm or less) to establish radio communication through electromagnetic fields. With NFC enabled, the mobile computer can collect information from NFC tags, exchange information with other NFC supported devices, and even change information on the NFC tag if authorized.

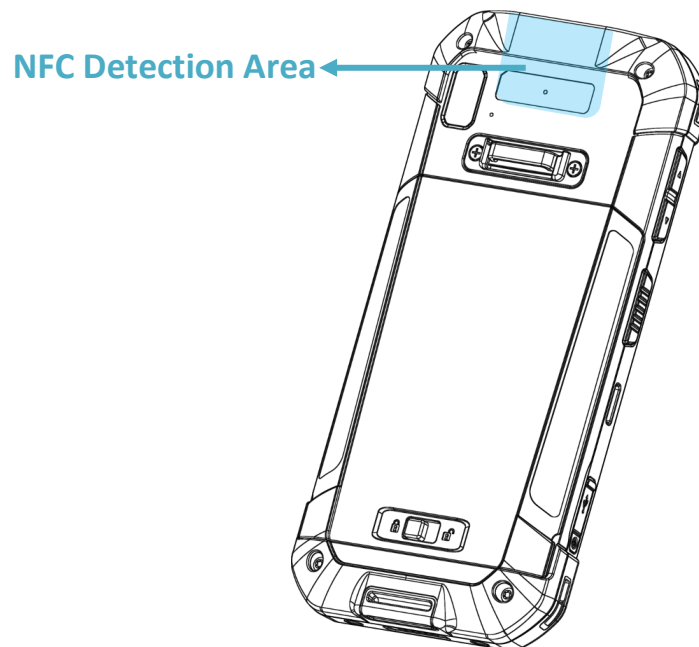
Before starting to communicate through NFC, perform the following:

- 1) Go to [App Drawer \(All Application\)](#) | **Settings**  | **Connected devices**  | **Connection preferences** | **NFC** .
- 2) Tap to switch on "NFC" .



4.3.1. PAIR WITH NFC ENABLED BLUETOOTH DEVICES

- 1) On the device you would like to pair with, make sure NFC is enabled and Bluetooth discovery is enabled.
- 2) Hold the mobile computer without covering the antenna area.



- 3) Move the mobile computer in proximity with the device for pairing. A screen notification will appear to indicate that pairing is successful.

Note:

Once the data begins to transfer, just keep the two devices in the distance within 10 m (32.8 ft.); they no longer have to be held within close range in order to transfer successfully.

4.3.2. COMMUNICATION WITH NFC

- 1) On the mobile computer, launch an NFC enabled application.
- 2) Hold the mobile computer without covering the antenna area.
- 3) Place the mobile computer close to the NFC tag or device until the application indicates data transfer is complete.

Chapter 5

USING THE PHONE

The RS36 mobile computer allows making phone calls and connecting to the network over LTE(Long Term Evolution). Insert the SIM card before turning on the power. Refer to [Installing SIM Card and Memory Card](#).

Note:
SIM2 card slot is optional.

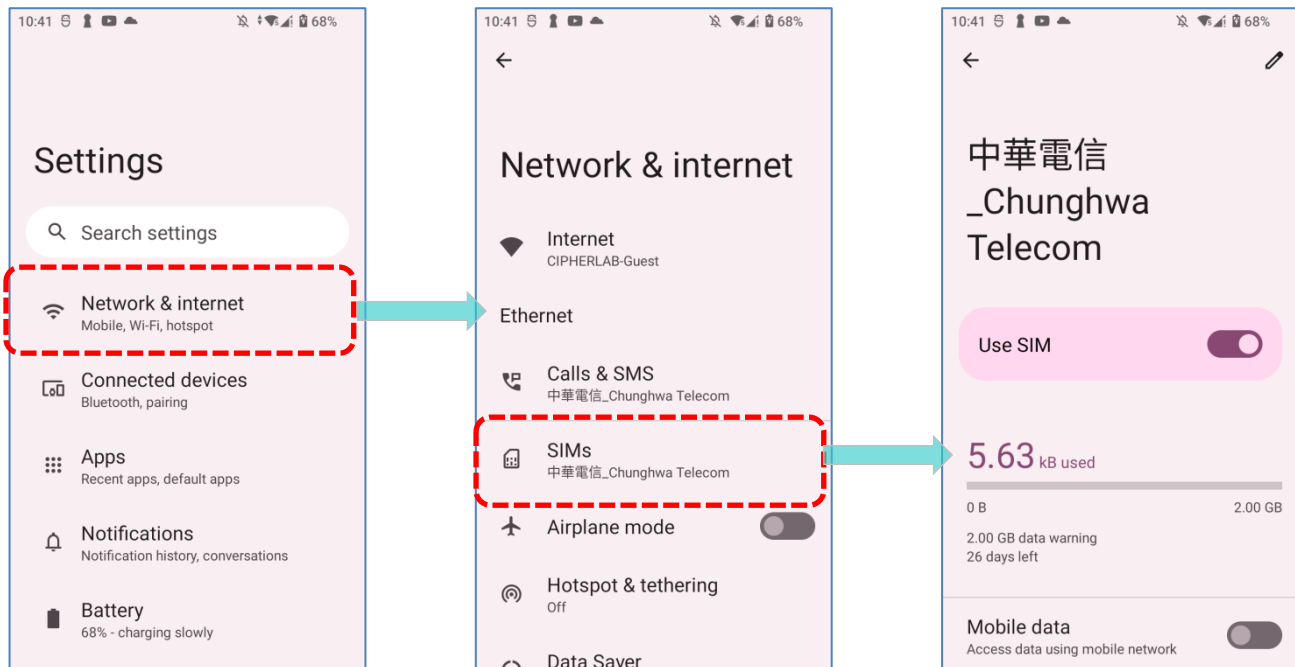
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5.1. SIM Card Management	166
5.2. Phone Application	169
5.3. Audio Modes.....	180
5.4. In-call Volume	181

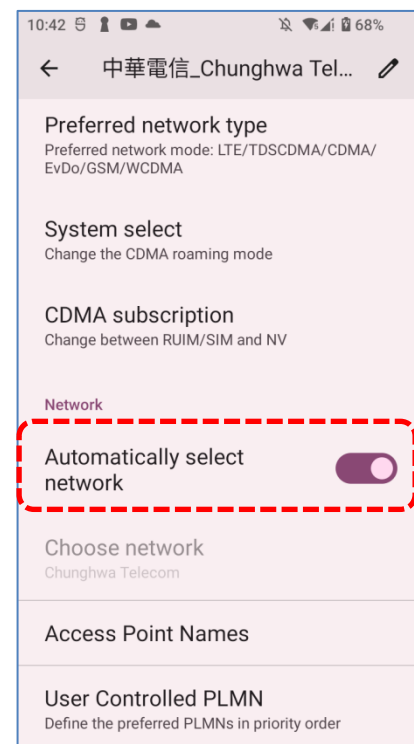
5.1. SIM CARD MANAGEMENT

The default setting for cellular networks is **"Automatically select network"**. To manually select the cellular network, please:

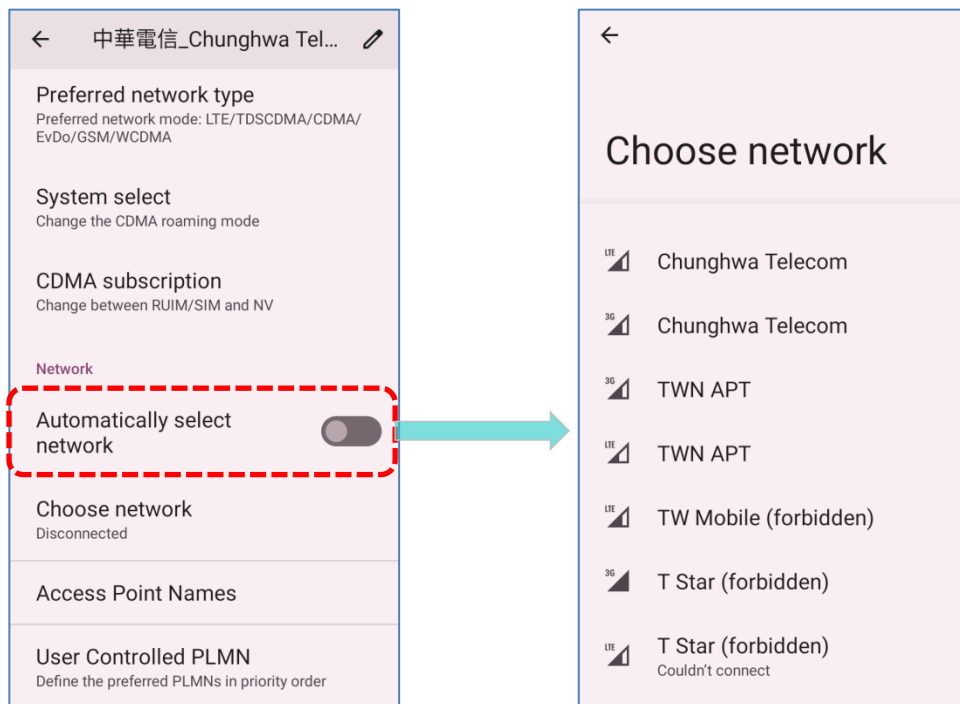
- 1) Go to [App Drawer](#) | **Settings**  | **Network & Internet**  | **SIMs** .



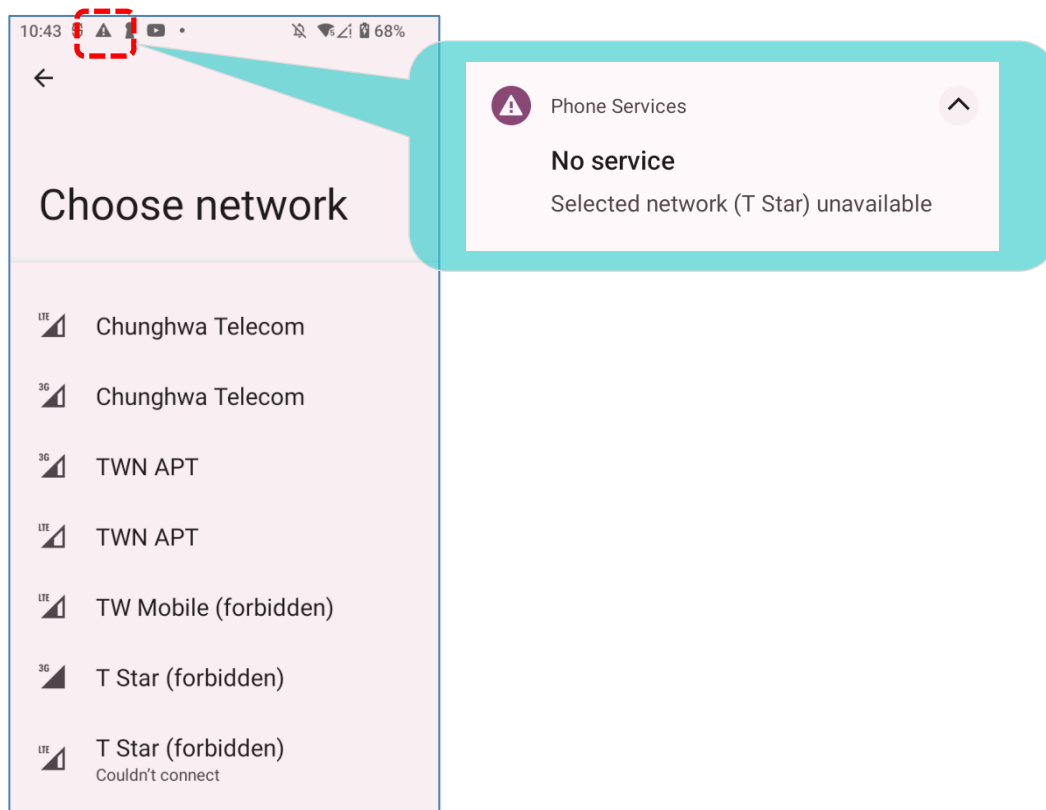
- 2) On the mobile network page, scroll to find **"Automatically select network"** to disable it.



- 3) By turning off “**Automatically select network**”, “**Choose network**” pops up to list the network after searching. Select your preferred network from the list.



- 4) A notification appears if the selected network is unavailable. Please repeat the aforesaid steps to select the network again.



Note:

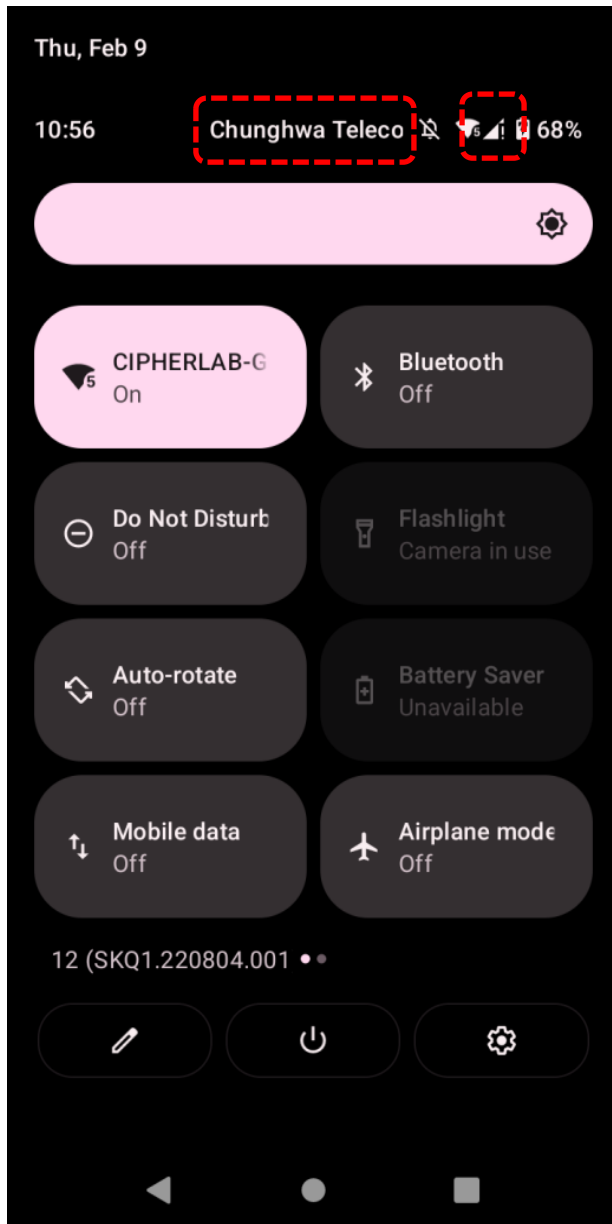
SIM2 card slot is optional.

EMERGENCY CALLS


Depending on your service provider, the mobile computer might support making emergency phone call when the SIM card is locked, or even when no SIM card is inserted. Emergency phone numbers will vary by country.

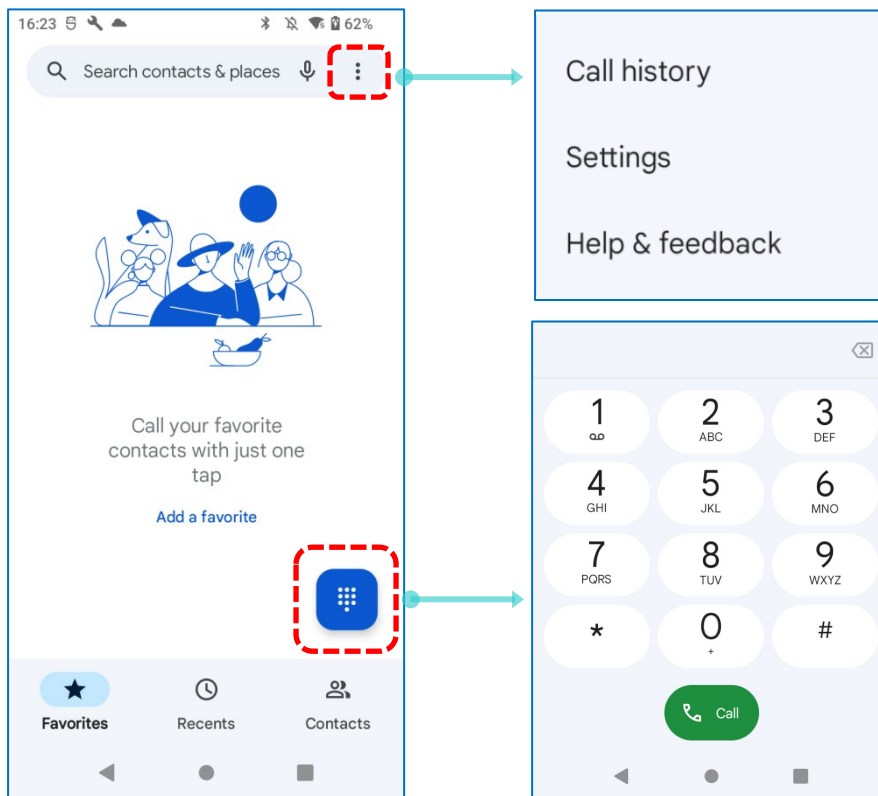
5.2. PHONE APPLICATION

When a SIM card is installed on the mobile computer, a signal icon appears on the top of the Quick Settings Menu to indicate the signal strength of the connection.






5.2.1. PHONE INTERFACE

To launch the phone application, please go to [App Drawer \(All Apps\)](#) | **Phone** .



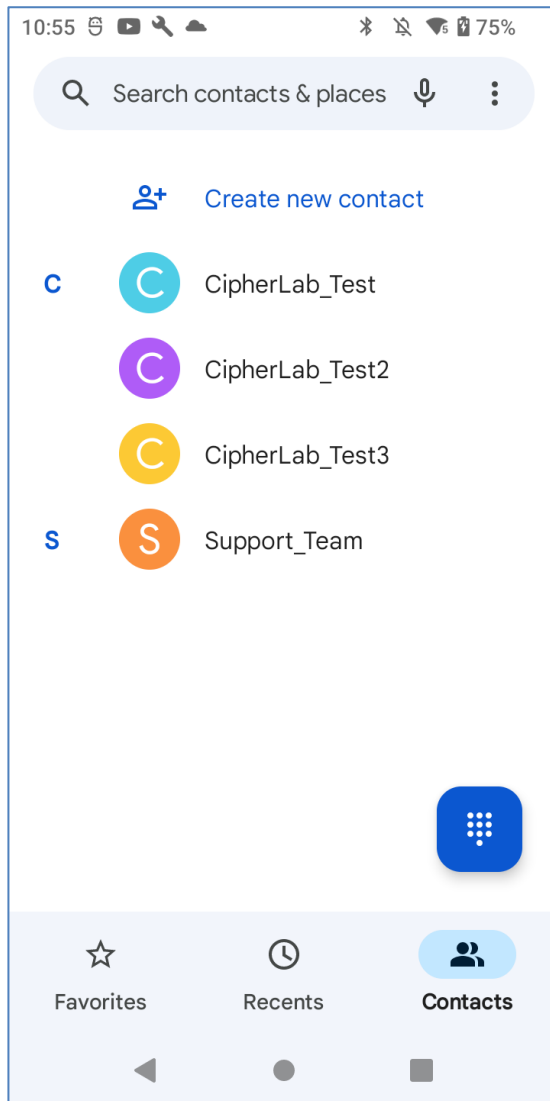
The application “**Phone**” contains 3 tab pages:

Item		Description
	Favorite	Display your favorite contacts & your frequent calls.
	History	List all the call history.
	Contacts	List your contacts.

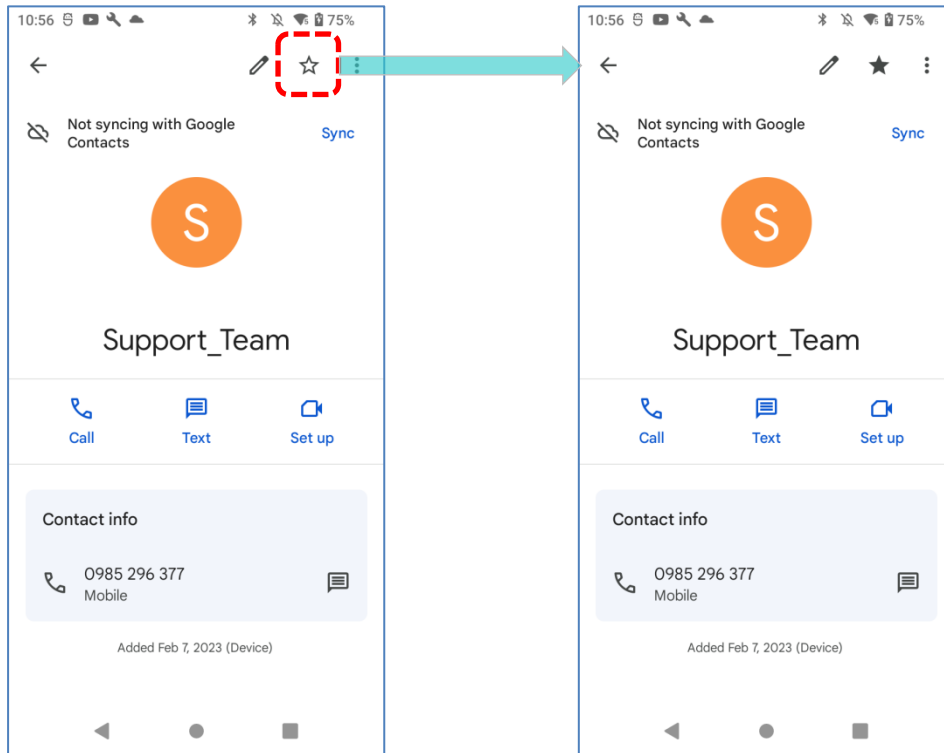
ADD FAVORITE CONTACTS

Your favorite contacts are displayed on “**Favorite**” ☆ tab pages for quickly making phone calls. To add a favorite contact:

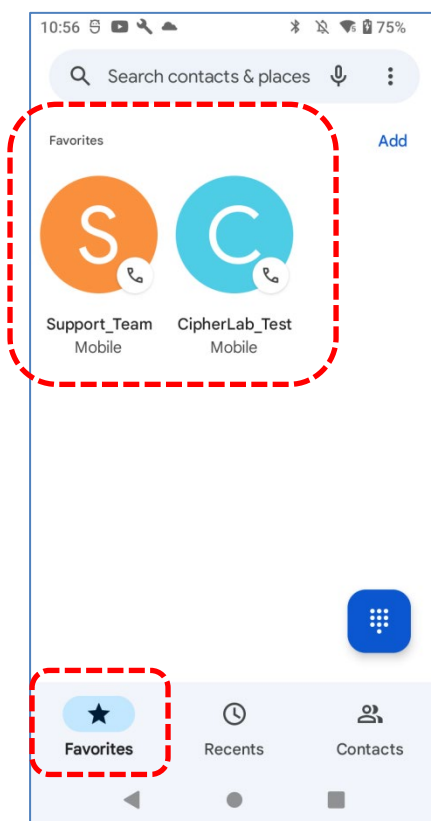
- 1) On “**Contacts**” 👤 tab page, tap on the contact you would like to set to be your favorite to enter the contact detail page.





2) Tap on the start mark on the upper-right to mark this contact as your favorite.




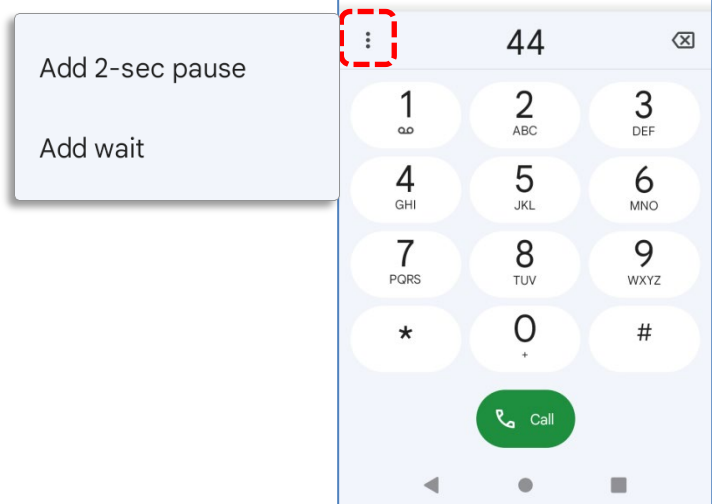
3) Return to "Favorites" ☆ tab page, the contact you just marked as favorite is now displayed on "Favorites" ☆ tab page.



5.2.2. PLACE CALL



Tap  to expand the dial pad, enter the phone number in the dial pad, and tap  to initiate the call.

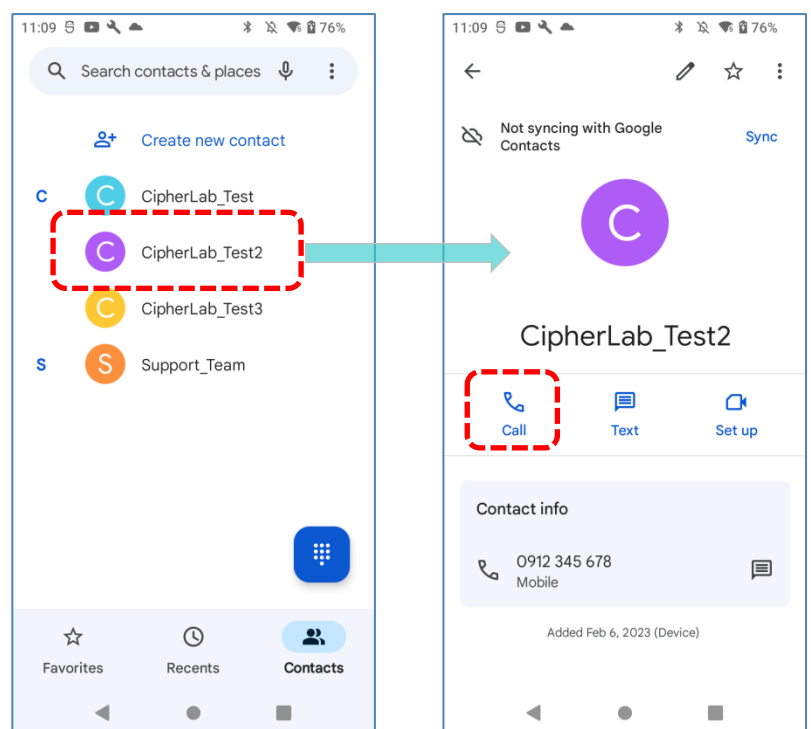
If you need to frequently make calls to an interactive voice system, you may tap  next to the number and select **Add 2-sec pause** for soft pause (a pause of 2 seconds to the buttons) or a hard pause (a pause that will wait for your confirmation to send the following digits).



PLACE CALL USING CONTACTS

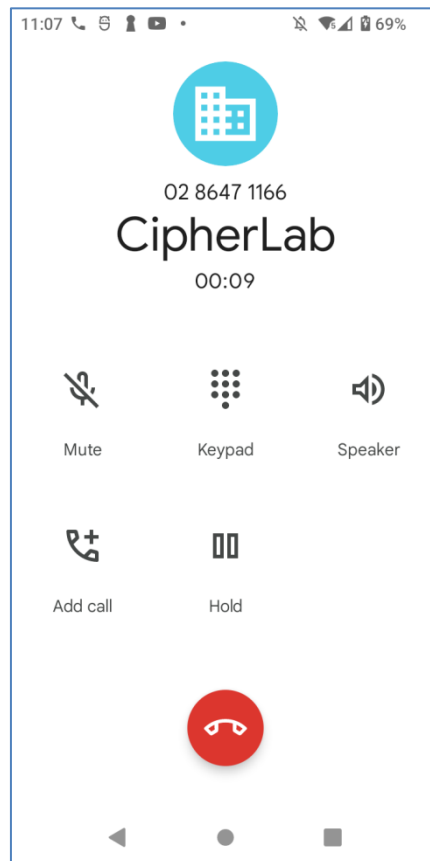
To make a call by using contacts:







- 1) In the phone application page, tap  to enter "Contact" tab page.
- 2) Tap a contact to enter the contact detail page and then tap on "Call"  to initiate a call.



5.2.3. DURING A CALL

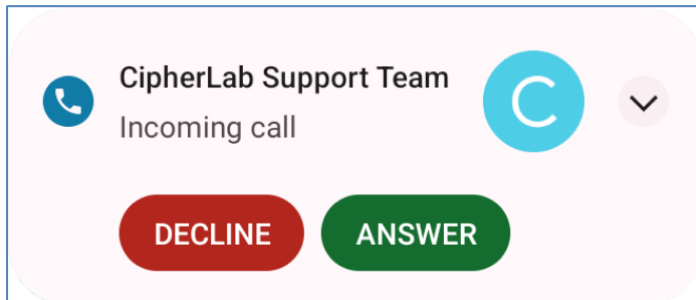
When a call is connected, the phone keypad features the following buttons:



Button		Description
	Mute	Mute the call.
	Keypad	Open the numeric keypad.
	Speaker	Turn on the speaker.
	Add call	Add another person to the call.
	Hold	Place the call on hold.
	Hang up	End the call.

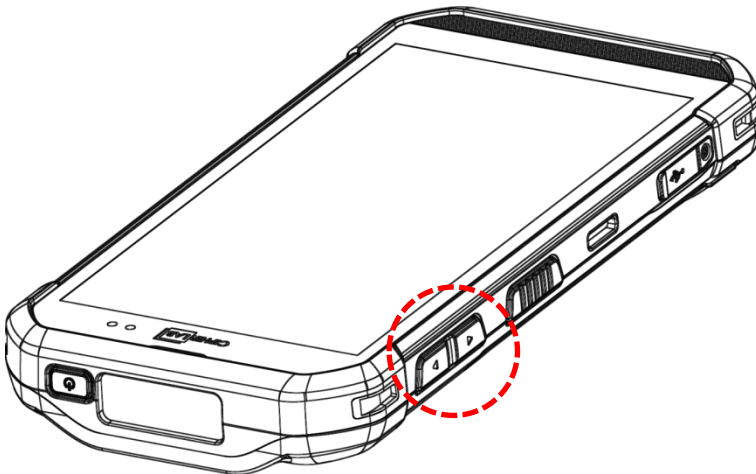
5.2.4. RECEIVE INCOMING CALL

When a call is incoming on the mobile computer, tap “**Answer**” to pick it up.




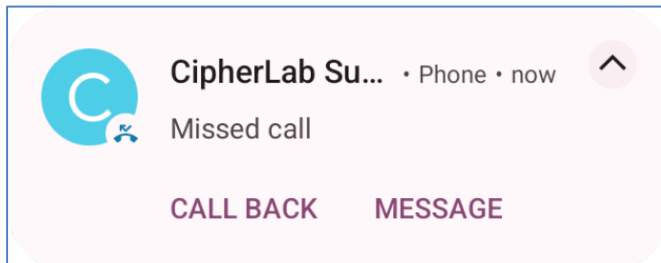
Incoming calls will be logged in the **Phone** application; in the case of a missed call, a notification will be displayed. See [Check Missed Calls](#).

To mute the ringtone of an incoming call, press the volume down button.



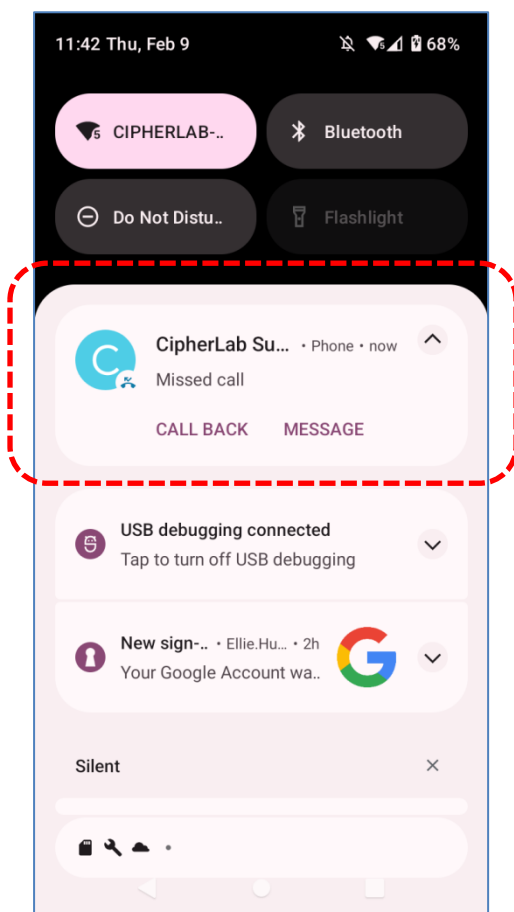
5.2.5. CHECK MISSED CALLS

If you have a missed call, a notification icon  will appear on the status bar. The missed calls notification will also be displayed on the lock screen.



(Turning on/off this function on [App Drawer \(All Apps\)](#) | Settings  | Notifications  | **Notifications** | **Notifications on lock screen**)

Unlock the screen and use the [Notifications Drawer](#) to manage the missed call.




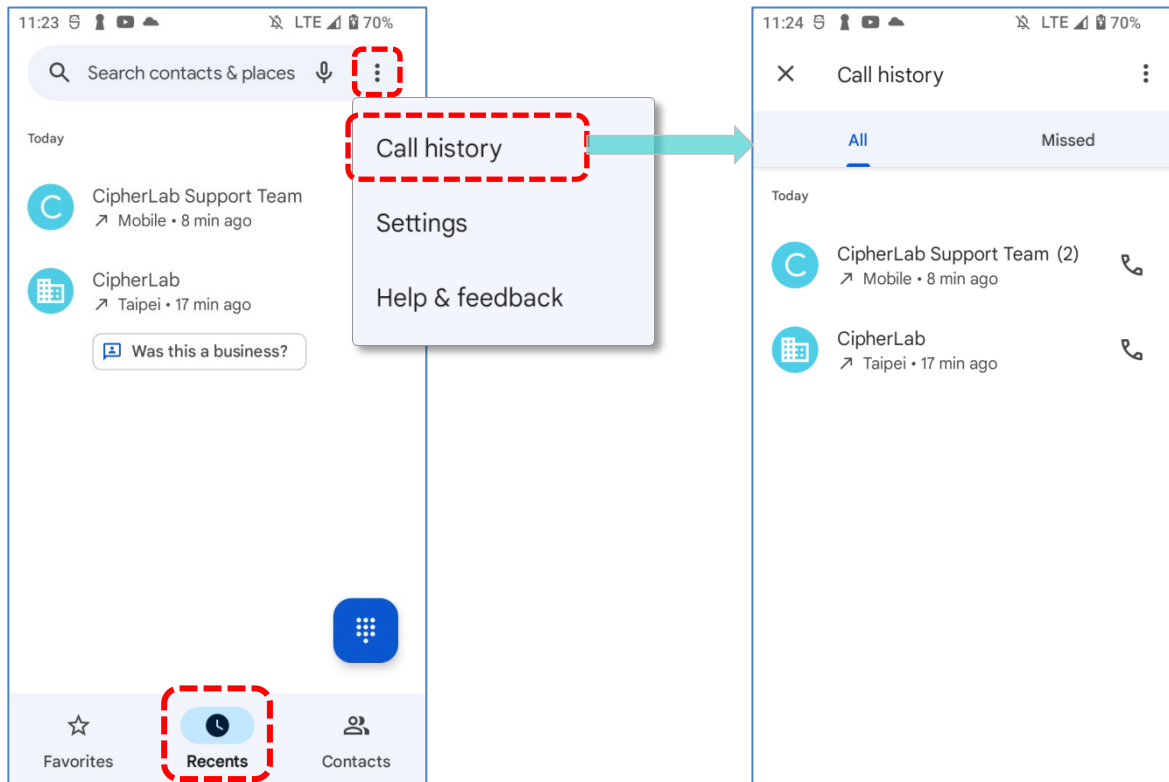
5.2.6. CALL HISTORY



To check the call history:


On the Phone application, tap to enter **Recents**  tab page where a list of history calls is displayed.


OR

Tap on the more button  and then **Call history**.



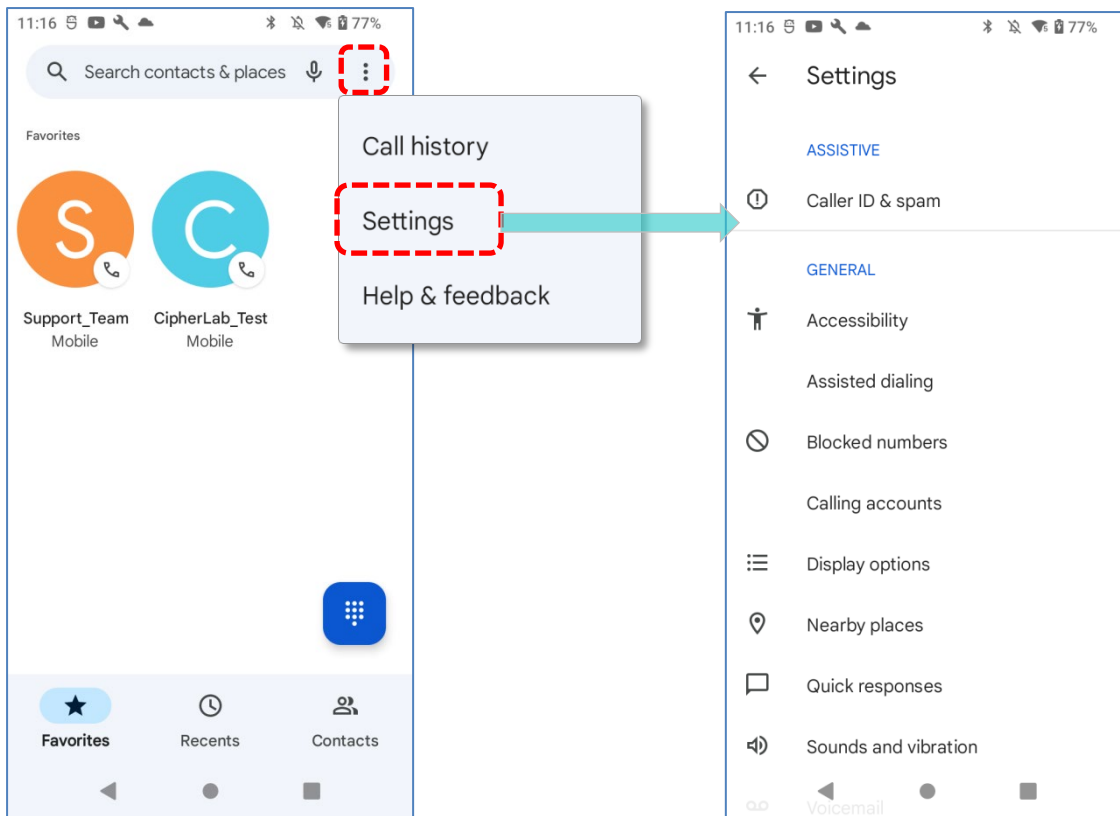
Item	Description
	Connected calls.
	Missed calls.

Tap the phone icon  next to a call record to place back the call.

To clear call history, tap on the more button  on **Call history** page and then **Clear call history**.

5.2.7. CALL SETTINGS











Tap on more button  and select **"Settings"** to enter the settings page:



Tap on each setting for more setting options.

5.2.8. MAKE MULTI-PARTY CALLS

To make multi-party conference calls:

- 1) On the Phone application page, enter the 1st number to call and tap  to initiate the call.
- 2) After the call has begun, tap **Add call**  to add another member. The 1st call will be put on hold.
- 3) Select the 2nd member from call log or contacts to call directly, or tap the dial pad  to input the phone number to call and tap  to initiate the call.
- 4) When the 2nd call is connected, the first call will continue to be on hold. Tap the merge call button  to add the 1st call to the conversation. A three-party conference call is initiated.
 - To add a 4th member, please tap . The three-party call will be put on hold. Follow the step similar to step 3 to initiate the call. When the call is connected, the three-party call will continue to be on hold. Tap the merge call button  to add the three-party call to the conversation. A four-party conference call is then initiated.
 - Tap **Manage Conference Call** to view all members of the call.
 - To remove a member, tap  next to the member.
 - To speak with a member in private, tap  next to the member, and the conference call will be put on hold. Tap  to return back to the conference call.

5.3. AUDIO MODES

The mobile computer offers three different audio modes for phone calls:

HANDSET MODE

This is the default audio mode which uses the receiver above the touchscreen for audio output during calls.

SPEAKER MODE

This mode uses the built-in speaker for audio output during calls.

HEADSET MODE

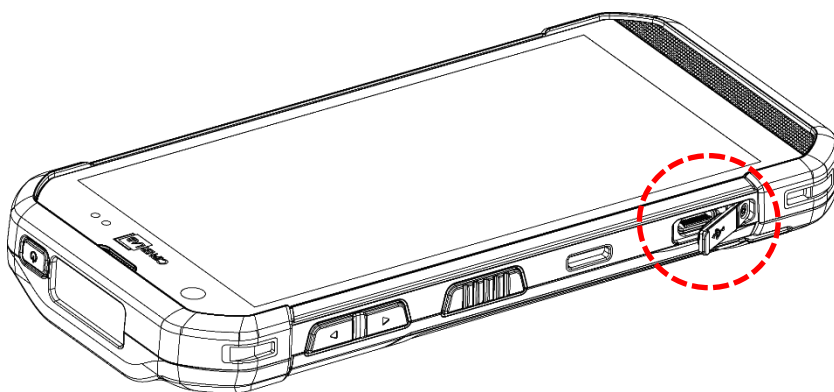
Connect a Bluetooth headset or a wired headset to the mobile computer for audio output during calls.

USE BLUETOOTH HEADSET

See [Pair Bluetooth Devices](#) to connect the mobile computer to a Bluetooth device. The speaker phone becomes muted when a Bluetooth headset is connected.

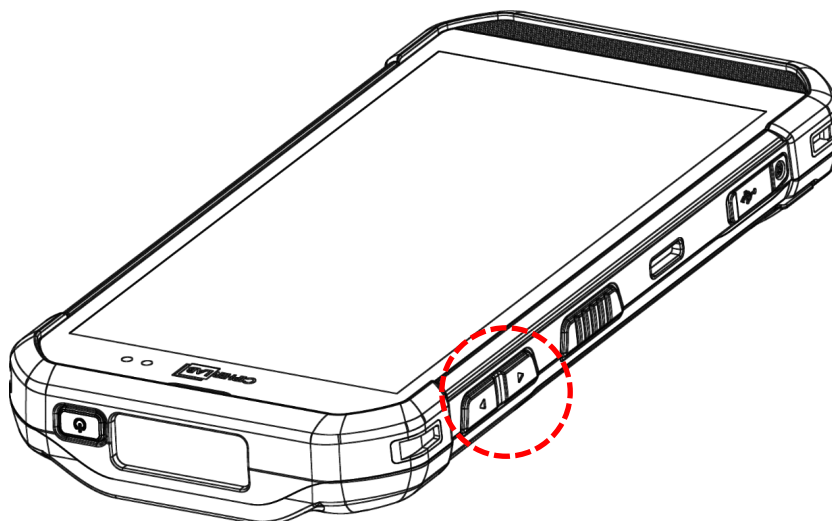
USE WIRED HEADSET

The RS36 mobile computer supports USB Type-C audio adapter for connecting headsets. Please insert a USB Type-C audio adapter into the USB-C port and then connect with a wired headset. The speaker phone becomes muted when a wired headset is connected.



5.4. IN-CALL VOLUME

Use the Volume Buttons to adjust the ringer volume and system sound level. When in the middle of a call, use the volume buttons to adjust in-call conversation volume.



Chapter 6

CIPHERLAB UTILITIES

This chapter gives the introduction about the built-in applications developed by CipherLab.

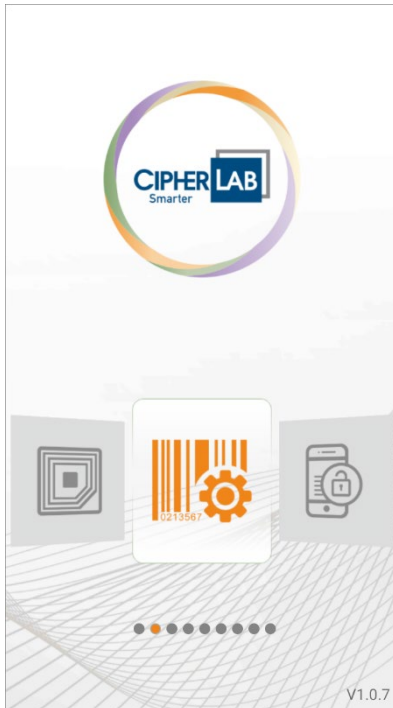
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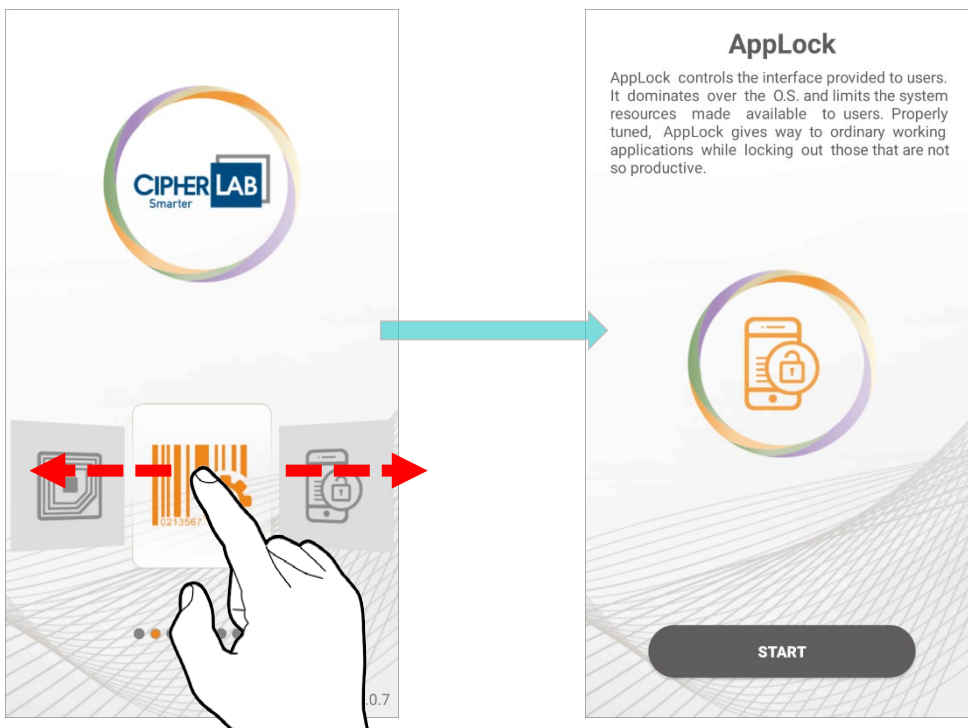
6.1. A-DEMO



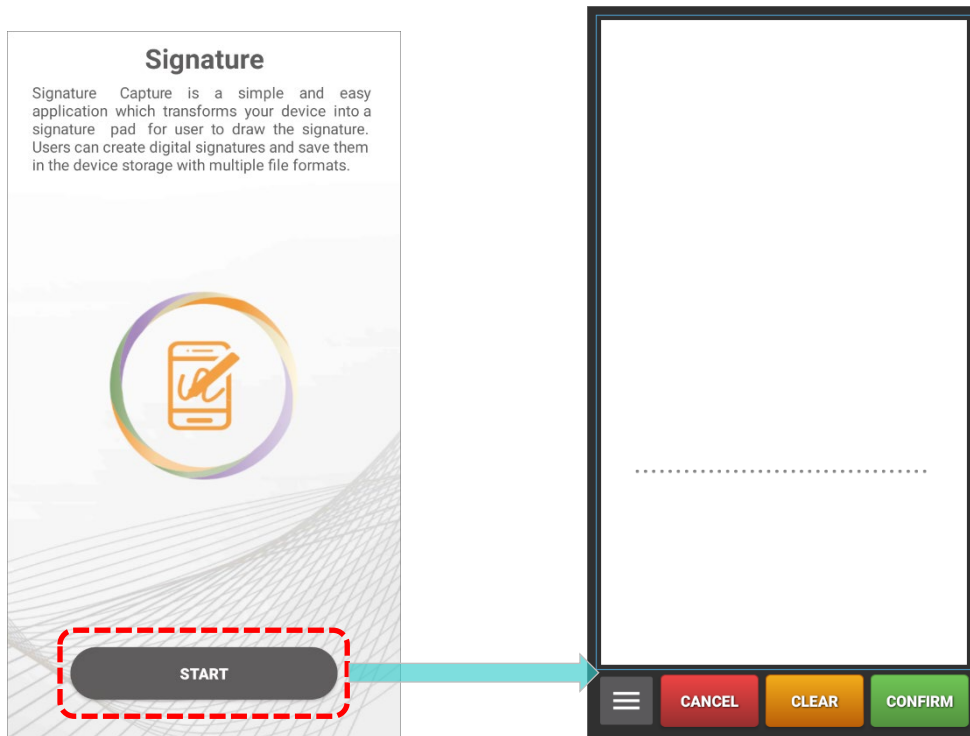
"A-Demo" is an application which gives the brief introduction about all the built-in applications developed by CipherLab.



Enter the main screen and swipe left or right to select the item to get the function introduction.



Users can launch those apps by tapping “**START**” on the App’s introduction page.



6.2. APPLOCK



AppLock controls the interface provided to users. It dominates over the O.S. and limits the system resources made available to users. Properly tuned, AppLock gives way to ordinary working applications while locking out those that are not so productive.

If you have a collection of mobile computers, you can apply a uniform user environment to the entire group without the need of great time and effort. This can be done easily by reduplicating a copy of master settings to your entire set of mobile computers.

For the operation instruction of **AppLock**, please refer to [AppLock User Guide for Android](#).

6.3. BARCODE TO SETTING

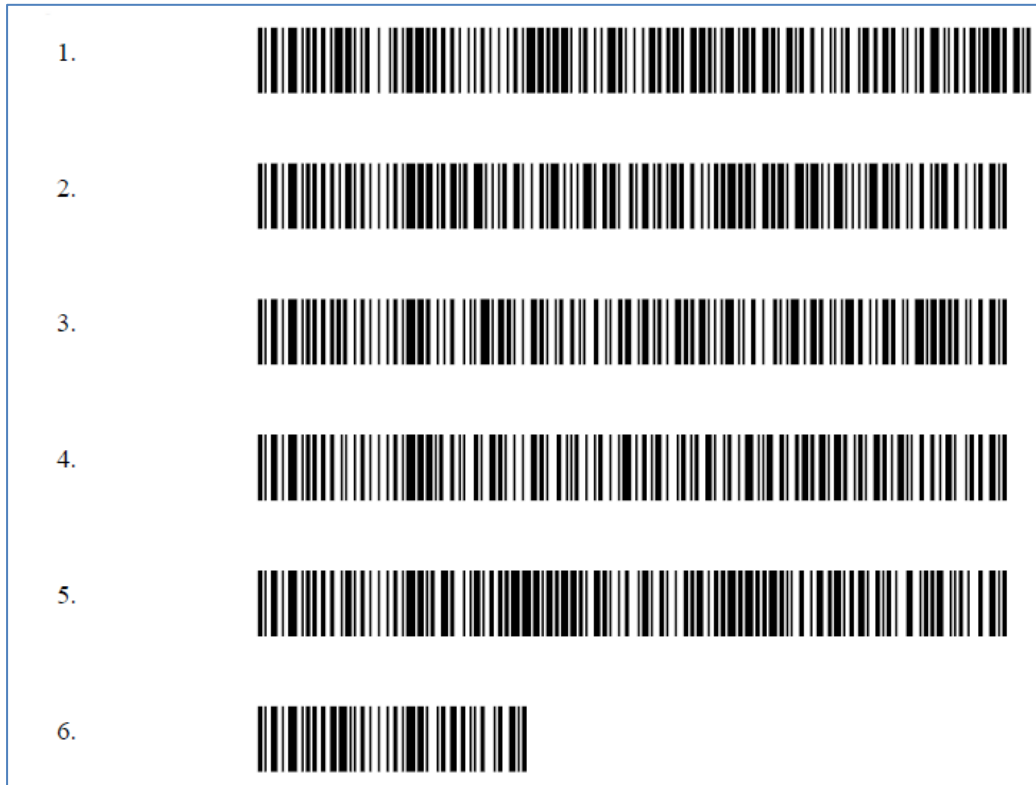


“**BarcodeToSetting**” is to read the setting barcodes generated by **ADC** (Android Deployment Configurator) to apply the configuration. Launch “**BarcodeToSetting**” and the main screen shows as below:

Item	Description
Total	The total amount of the barcodes to be scanned.
Next	The item number of the next barcode to be scanned.
Remaining	The amount of the remaining barcodes to be scanned.
Result	The setting result will be “Success” or “FAIL”
CLEAR DATA	Clear the data of the barcode(s) you just scanned.
EXIT	Close and leave the application “BarcodeToSetting”.

The setting barcode(s) you generated by **ADC** might be 1D or 2D as the example figures shows:

■ **1D barcodes:**

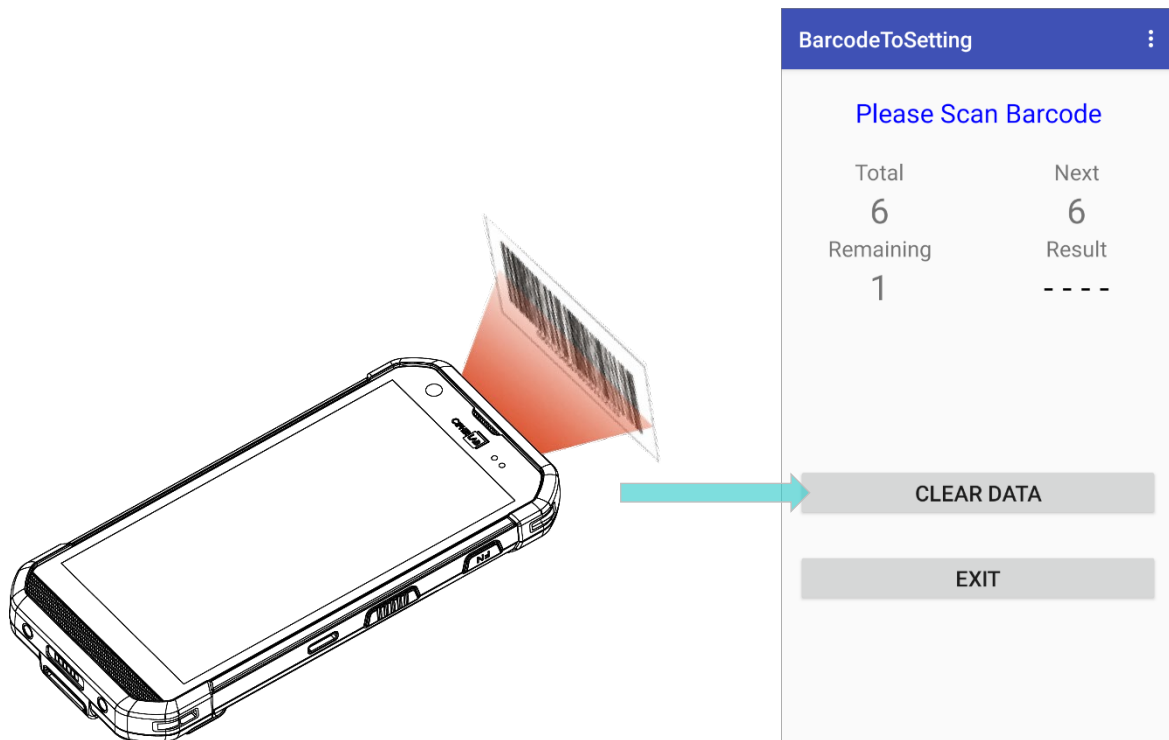


■ **2D barcode:**

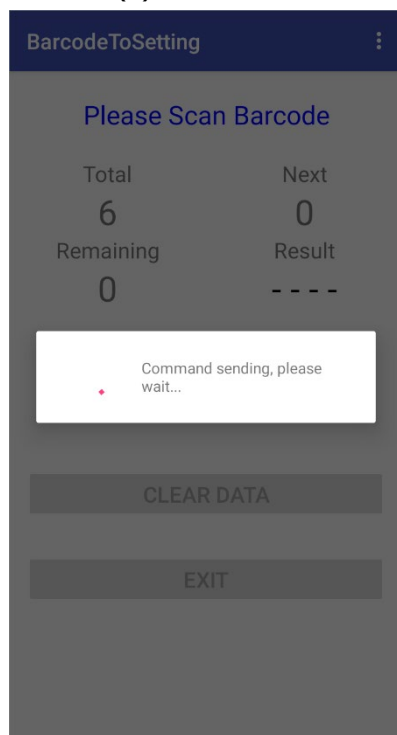


HOW TO APPLY THE SETTINGS BY SCANNING BARCODE(S)

Simply aim the scanning window at the barcode to read and press any of the side trigger. The scanning light beams to read the printed barcodes.



It takes few seconds for your device to apply the configuration after scanning the setting barcode(s) is done.

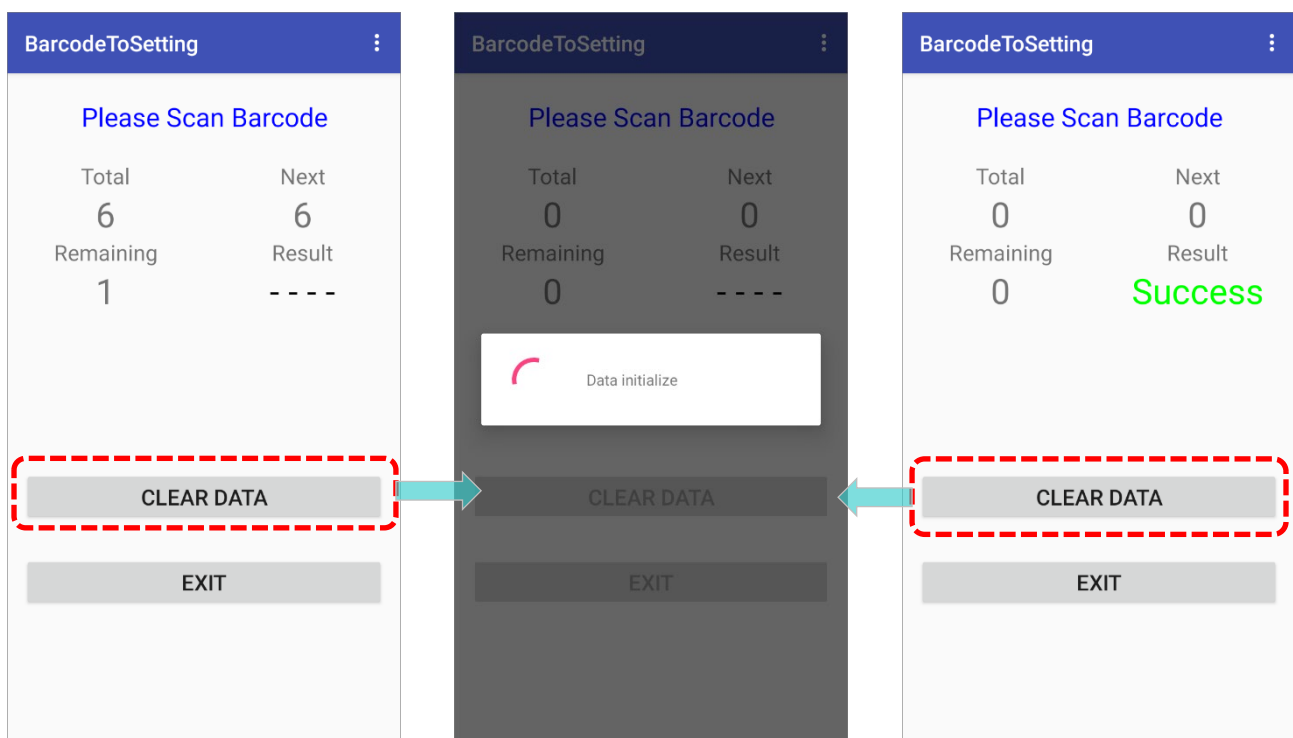


Configuration is complete.

The screenshot shows the 'BarcodeToSetting' app interface. At the top is a blue header with the text 'BarcodeToSetting' and a menu icon. Below the header, the text 'Please Scan Barcode' is displayed in blue. There are two columns of data: 'Total' and 'Next' both showing '0', and 'Remaining' and 'Result' both showing '0'. A green 'Success' message is displayed to the right of the 'Result' value. At the bottom, there are two buttons: 'CLEAR DATA' and 'EXIT'.

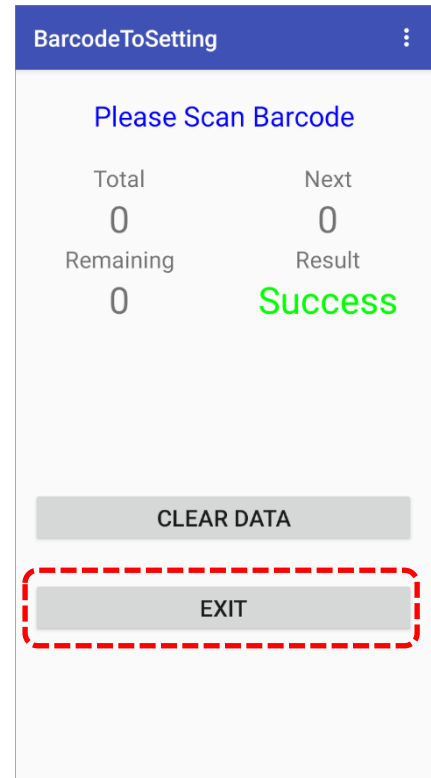
CLEAR DATA

You may carry out “**CLEAR DATA**” during the scanning procedure (before it starts to apply the configuration) to start over. Or you may tap on “**CLEAR DATA**” button after completing configuration so that you can scan other barcodes you generated to apply other settings.



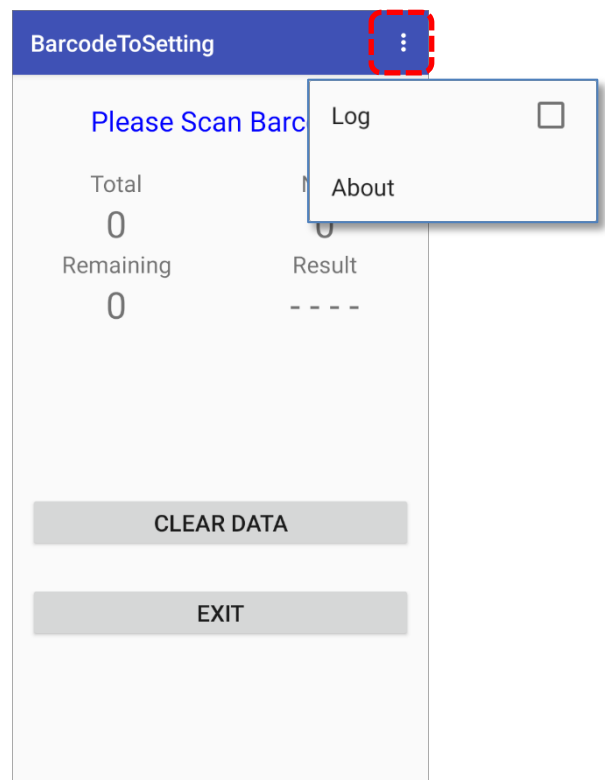
EXIT

Tap on the button "EXIT" to quit "BarcodeToSetting".



MORE MENU

Tap on the more button  on the action bar to open the more menu.



The items on the more menu are:

Item	Description
Log	Check the checkbox to enable recording of events that occurs during “BarcodeToSetting” runs.
About	Show the current version of “BarcodeToSetting” and “Reader Service”.

6.4. BT PRINTER MATE



BT Printer Mate is an application which provides user interface to pair with Bluetooth printers.

6.5. BUTTON ASSIGNMENT



Button Assignment can redefine the functions of physical keys so that they trigger different actions. Settings made to one or more keys can be saved as a profile, allowing users to switch conveniently in between different sets of settings.

Users can change key behavior of the device with keypad by the application “**Button Assignment**” while changing the key behavior of device without keypad by “**Programmable Keys**” in settings.

Please refer to [Button Assignment User Guide for Android](#).

6.6. ENTERPRISE SETTINGS



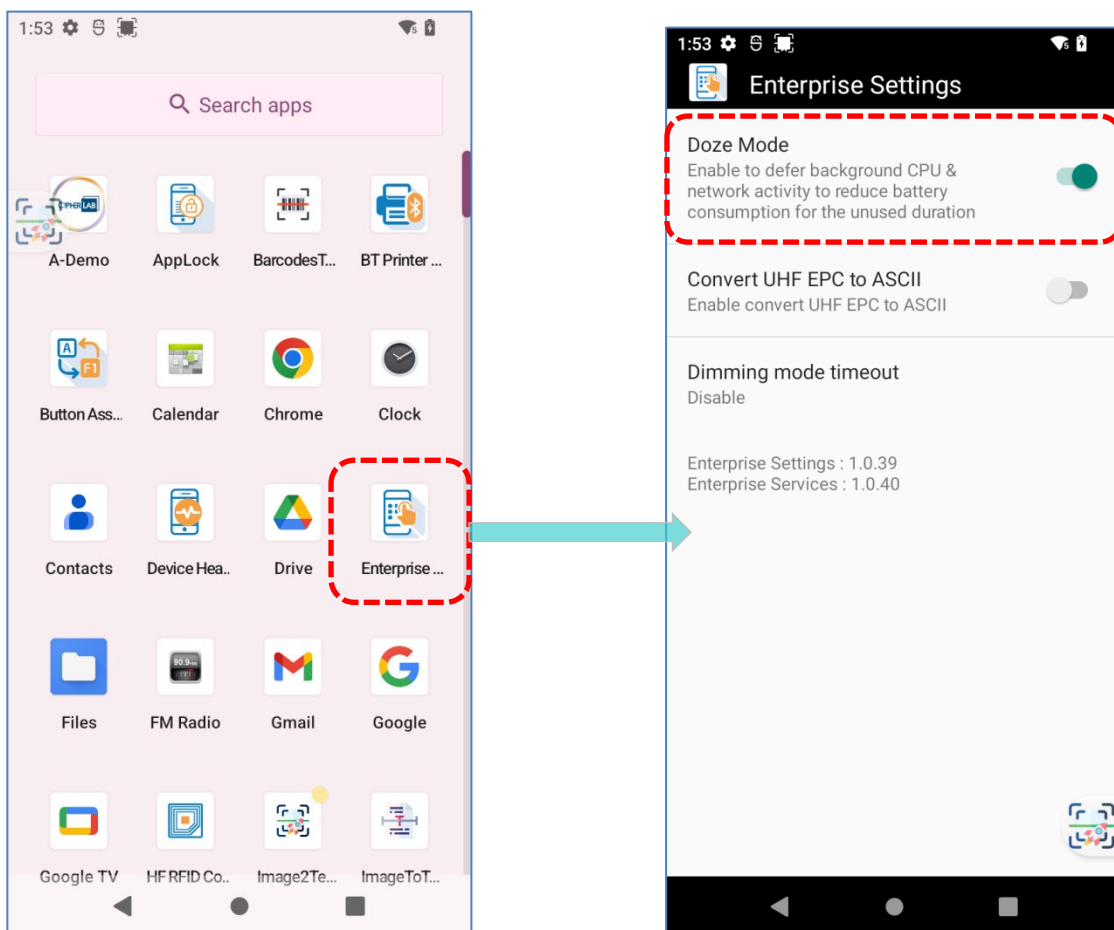
Enterprise Settings in RS36 mobile computer offers **"Doze Mode"** settings of RS36 mobile computer.

DOZE MODE

"Doze Mode" is enabled by default.

Please refer to

<https://developer.android.com/training/monitoring-device-state/doze-standby> for details.



DIMMING MODE TIMEOUT

"Dimming Mode Timeout" is disabled by default.

To enable this function, choose the provided option of idle time.

The screen will be dimmed automatically for the purpose of the power saving when the selected idle time is timeout. Instead of entering into the suspend mode, the background and APPs still keep running during the dimming mode.

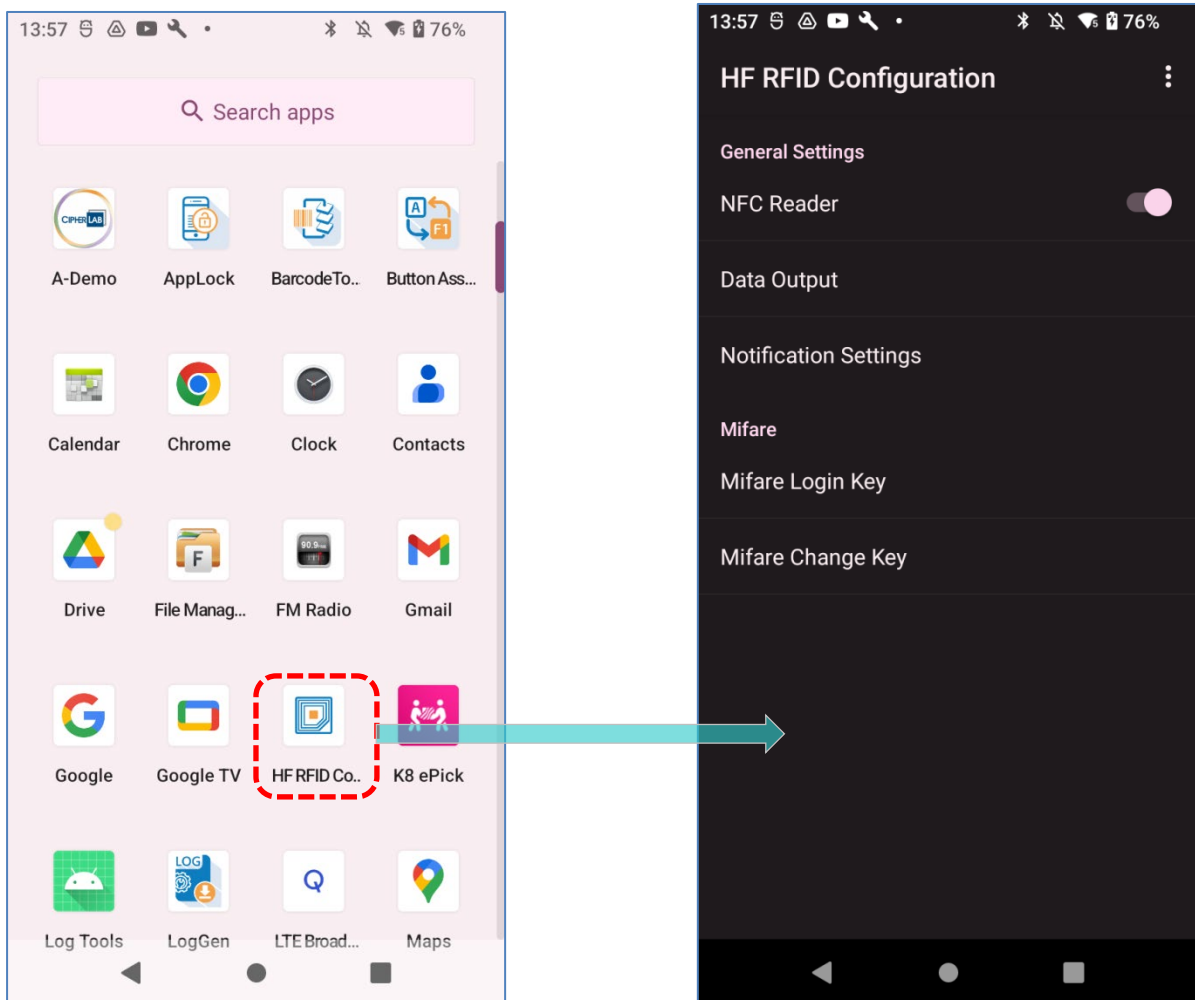
VERSION

The version information about Enterprise Settings is listed right below "**Doze Mode**".

6.7. HF RFID CONFIGURATION



HF RFID Configuration is a NFC application which is for reading and writing NFC tags and RFID compatible chips by putting the NFC tag/ RFID chip close to the NFC detecting area of your device. User can control how the NFC reader works by settings in HF RFID Configuration and enabling it.

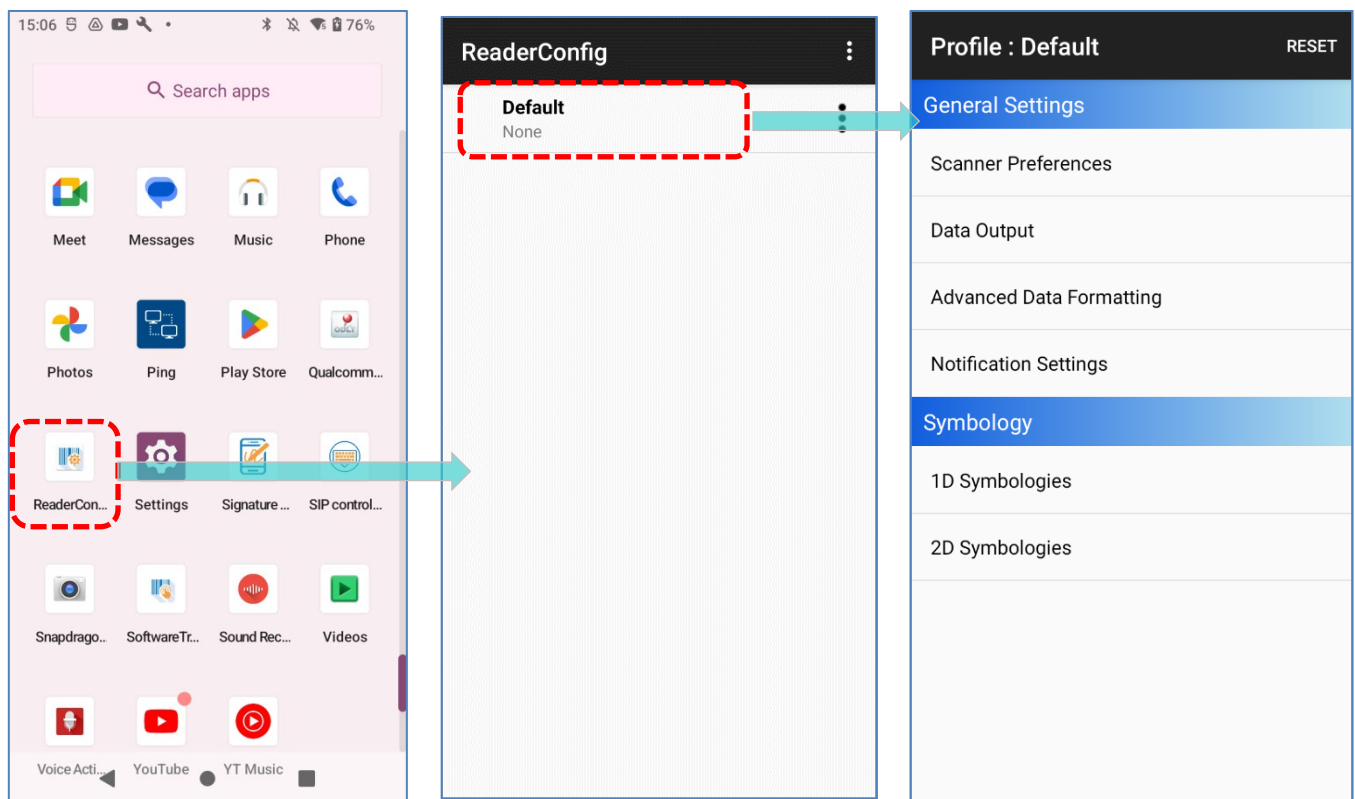


Please refer to [HF RFID Configuration User Guide for Android](#).

6.8. READERCONFIG



ReaderConfig, a built-in app for configuring the scan engine inside the mobile computer, allows users to set their scanner preferences and the way to output decoded data. Symbology and scanner settings can be saved and exported as a profile for importing again or implementing identical Reader Config settings on multiple devices.

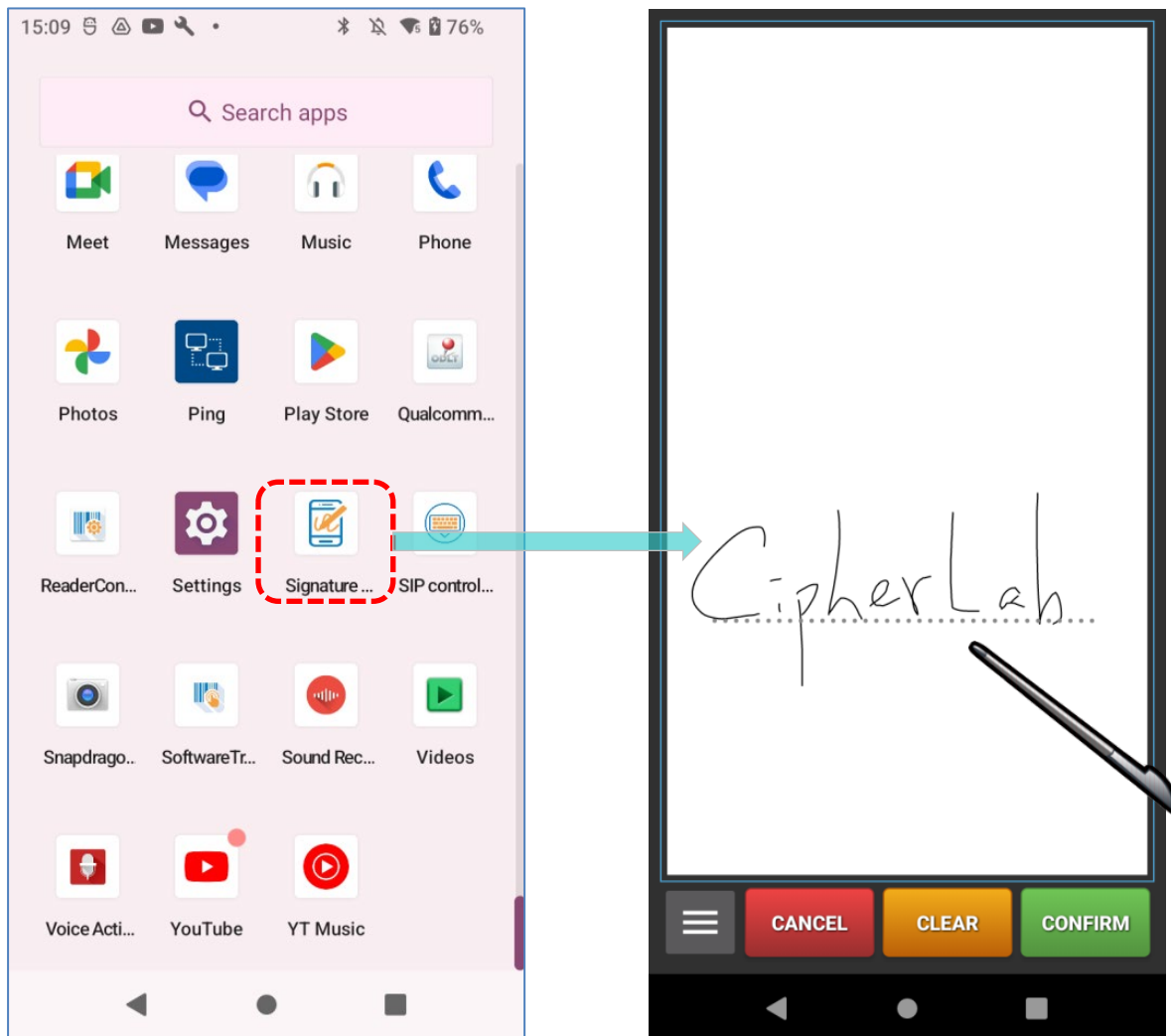


Please refer to [ReaderConfig User Guide for Android](#).

6.9. SIGNATURE CAPTURE



Signature Capture is a simple and easy application which transforms your device into a signature pad for user to draw the signature. Users can create digital signatures and save them in the device storage with multiple file formats.



Please refer to [Signature Capture User Guide for Android](#).


6.10.SIP CONTROLLER

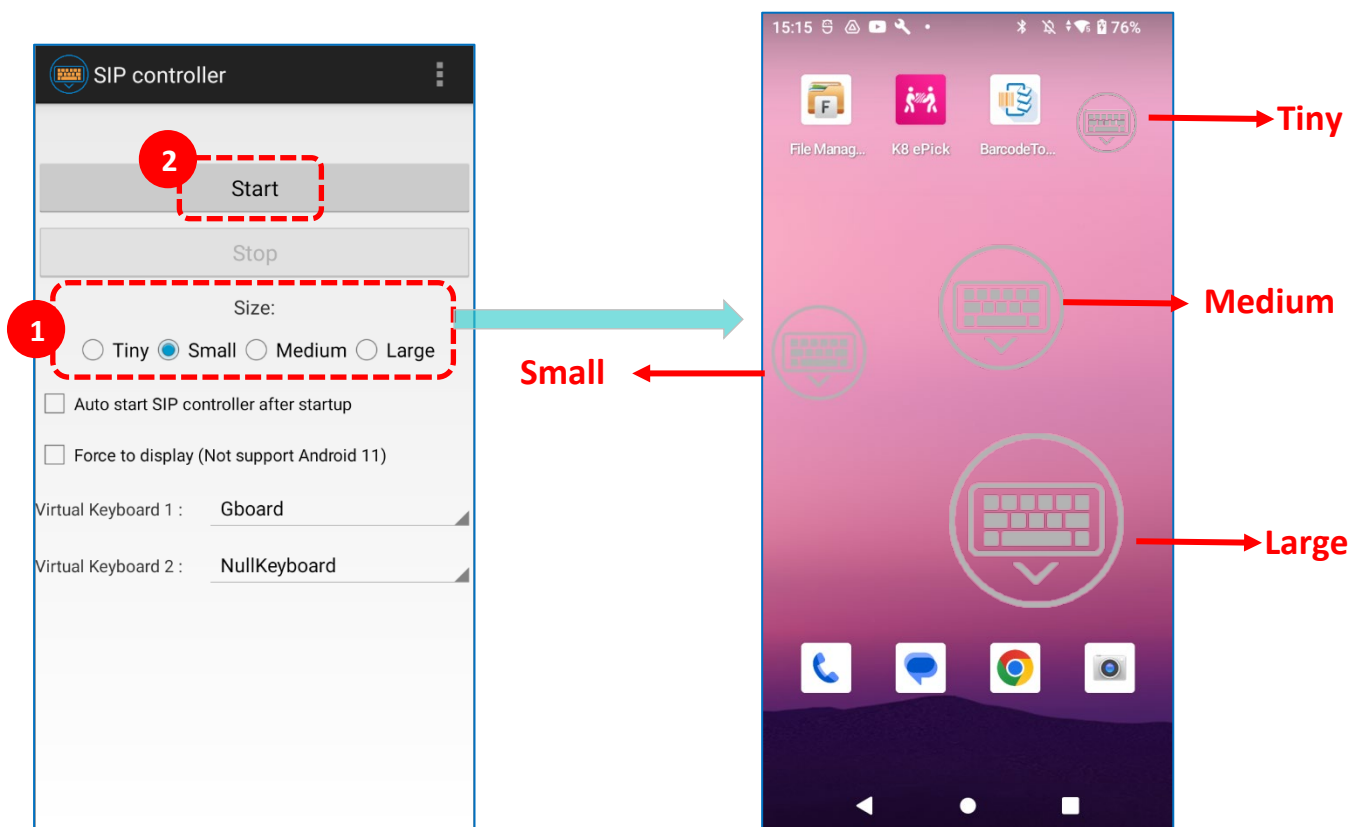



SIP Controller, a built-in application for quickly open or close virtual keyboard by tapping on the floating button.

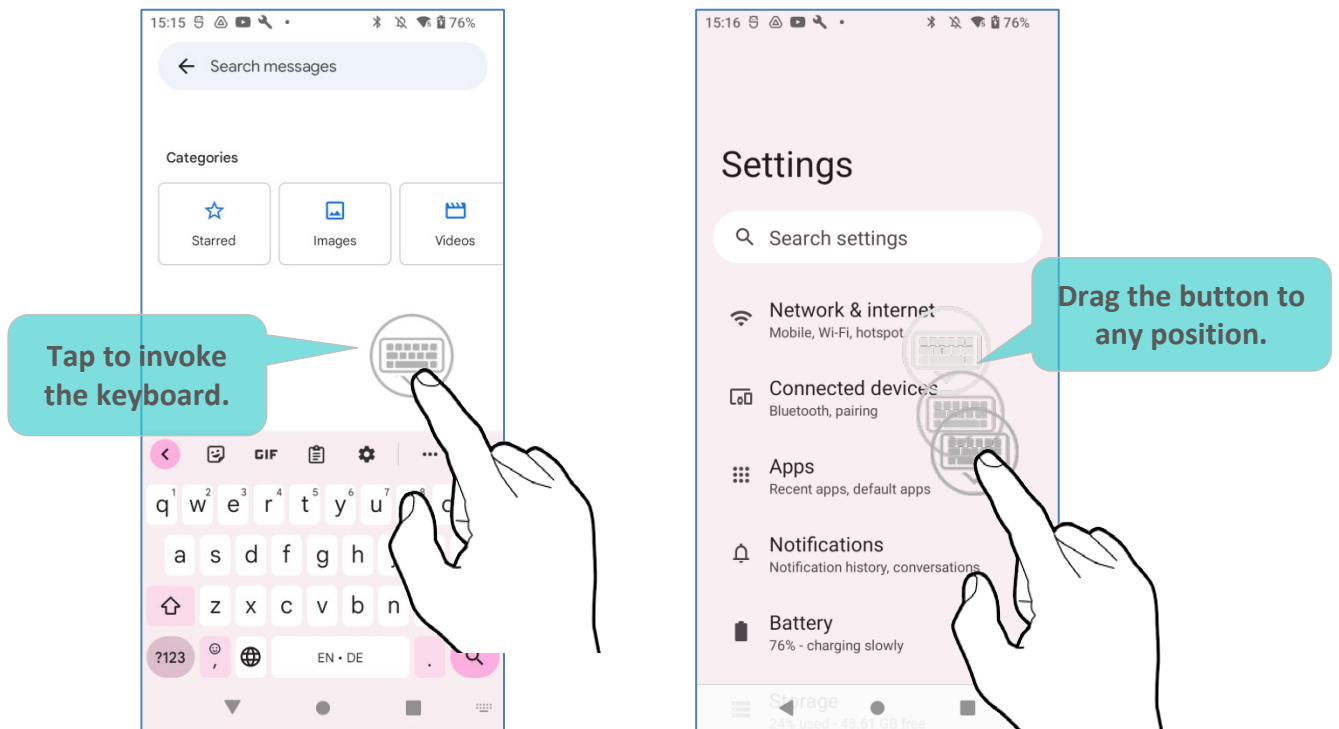
LAUNCH SIP CONTROLLER

To launch SIP Controller:

- 1) Go to [App Drawer \(All Apps\)](#) and tap on the app "SIP Controller"  to enter the main screen.
- 2) Select the button size, and then tap on "Start".



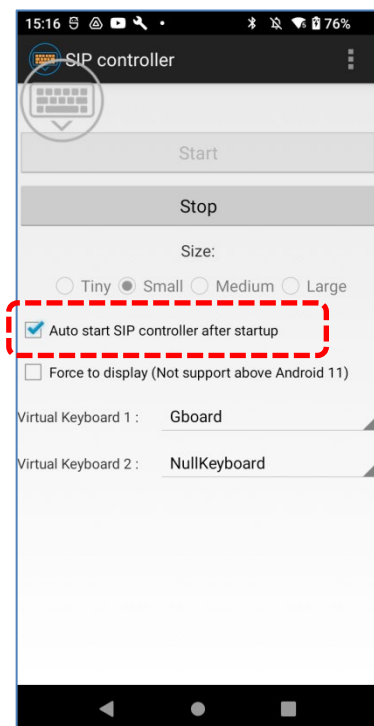
- 3) Now the **"SIP Controller"** button  appears on screen, and you can invoke the virtual keyboard by tapping on it. You can drag this button to any position on the screen.



AUTO START

By enabling **"Auto start SIP controller after startup"**, **SIP Controller** will automatically start up on device boot up.

Simply check the checkbox to enable this function.



SWITCH VIRTUAL KEYBOARD

The figure consists of three sequential screenshots of an Android phone's interface, illustrating the steps to set a virtual keyboard.

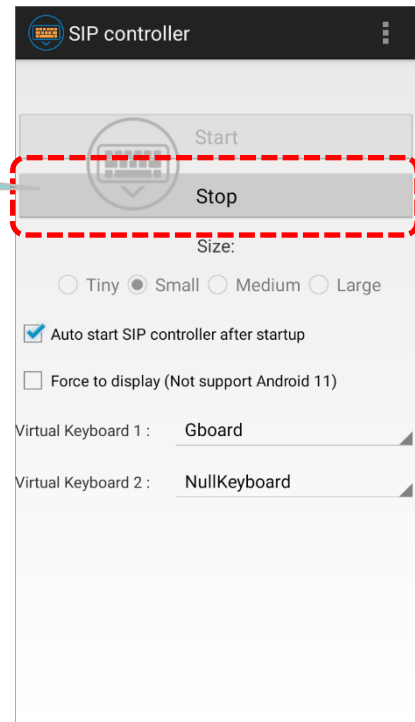
- Screenshot 1 (Left):** Shows the 'SIP controller' app settings. The 'Start' button is highlighted. Below it, the 'Size' is set to 'Small'. A red dashed box highlights the 'Virtual Keyboard 2' dropdown menu, which is currently set to 'NullKeyboard'. A red speech bubble points to the 'Start' button with the text: 'Tap to set the virtual keyboard.'
- Screenshot 2 (Middle):** Shows the 'Search messages' screen. The 'Categories' section is visible, showing 'Starred', 'Images', and 'Videos'. A red dashed box highlights the 'Starred' category. A red speech bubble points to the 'Starred' category with the text: 'Tap the button to cycle through the virtual keyboards.'
- Screenshot 3 (Right):** Shows the Google search screen. The 'Tap to pause' button is highlighted. A red dashed box highlights the keyboard area, which is currently set to 'NullKeyboard'. A red speech bubble points to the keyboard area with the text: 'Tap the button to cycle through the virtual keyboards.'

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EXIT SIP CONTROLLER

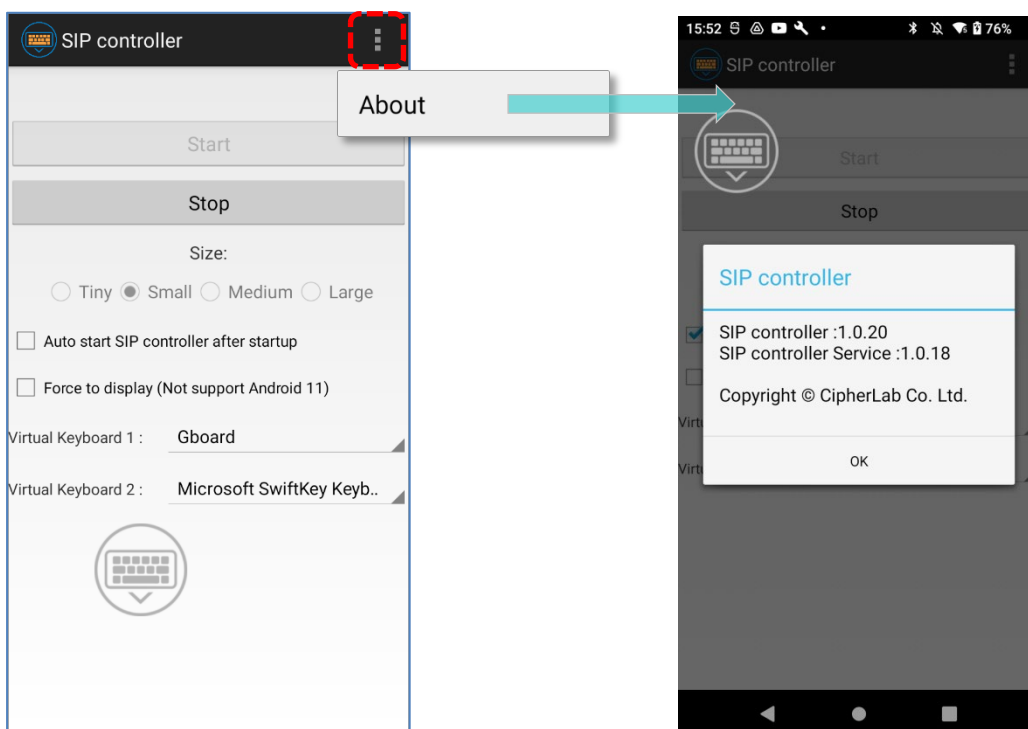
Tap on **"Stop"** to disable **SIP Controller** on-screen button.

Tap to quit "SIP Controller".



VERSION INFORMATION

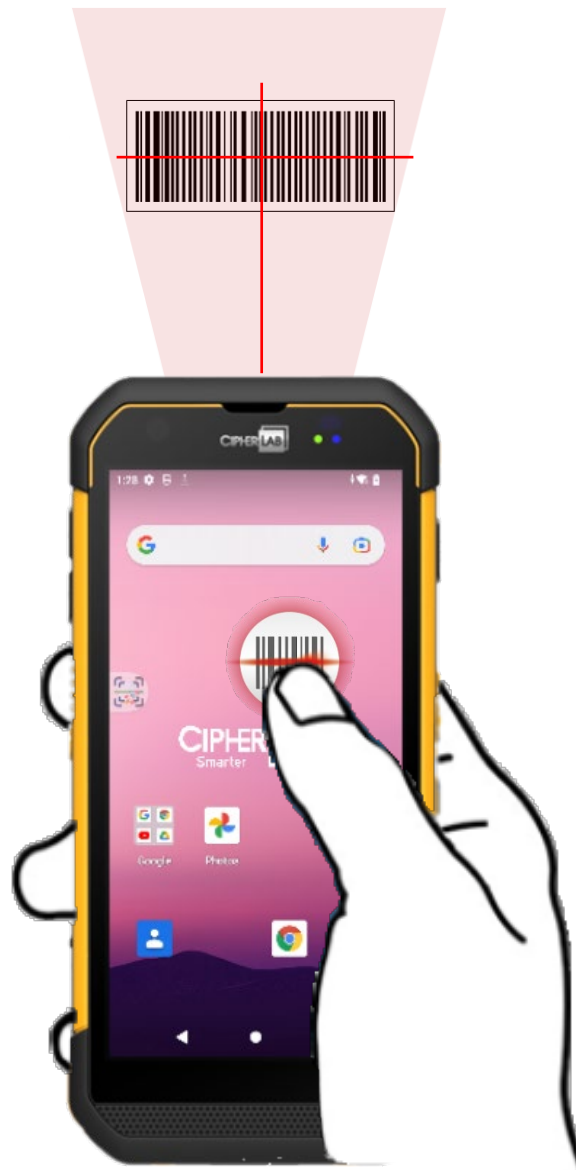
Tap on the more button on the action bar and select **"About"** to check the current version of **SIP Controller**.



6.11.SOFTWARE TRIGGER



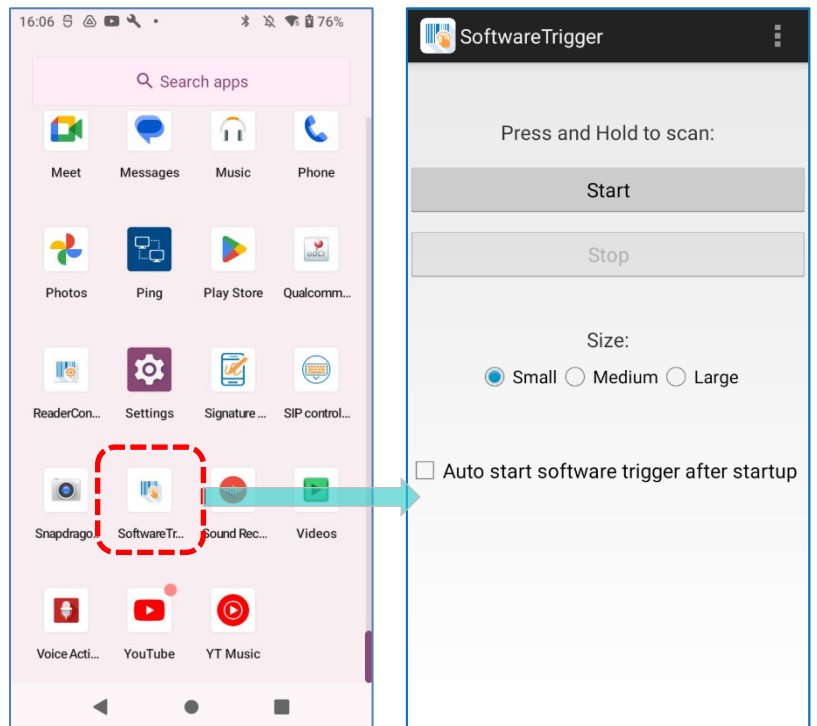
Software Trigger is an application running on mobile device. Serving as a real trigger key, it always floats on top of all other programs for convenient trigger control of the barcode scanner; by tapping and holding this virtual button, the device will keep casting a red beam to scan the code.



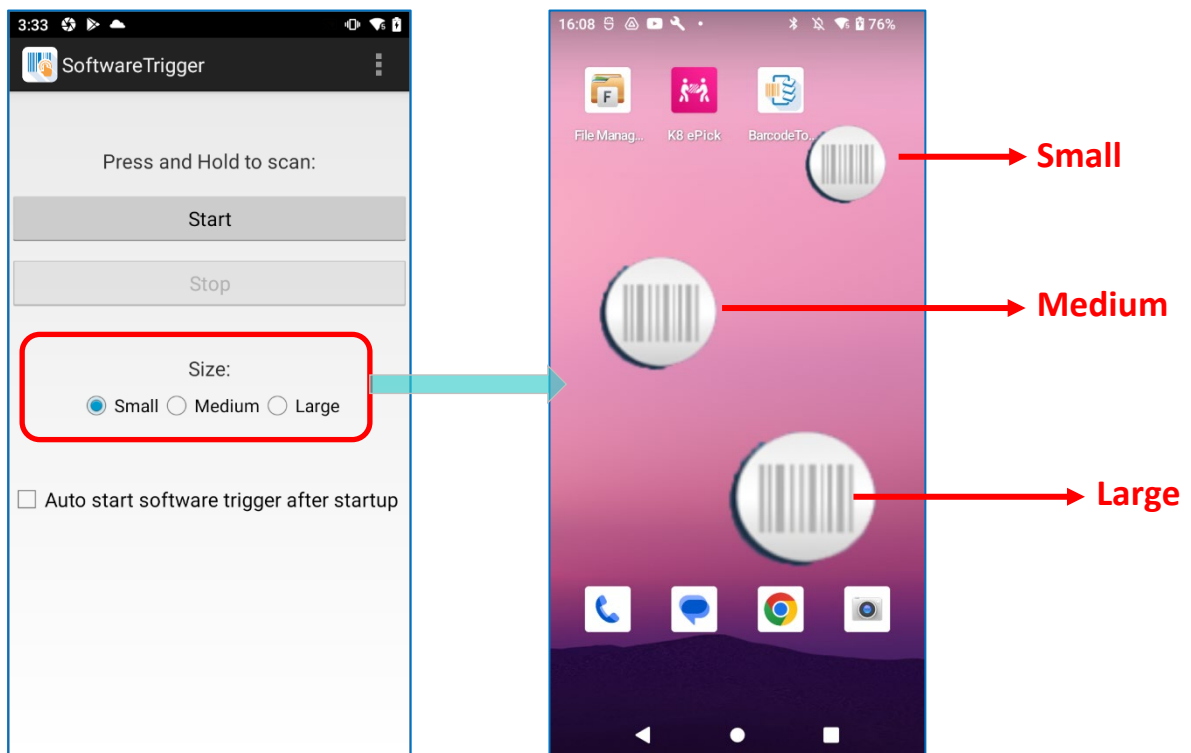
LAUNCH SOFTWARE TRIGGER

Please follow the steps below to launch **Software Trigger**:

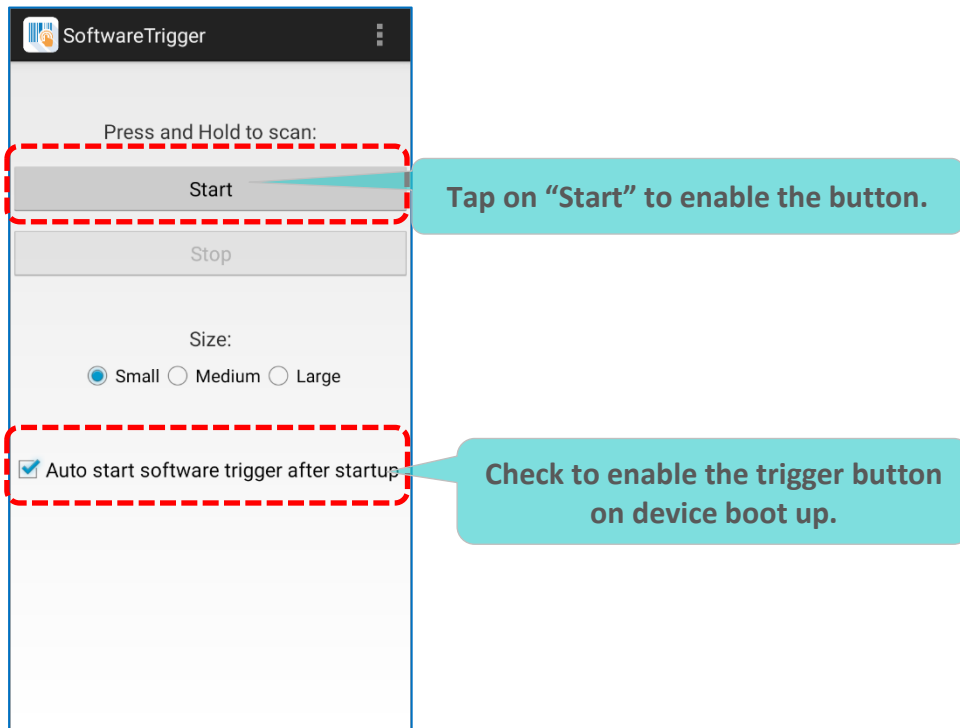
- 1) Go to [App Drawer \(All Apps\)](#) and tap on the app "Software Trigger" to enter the main screen.



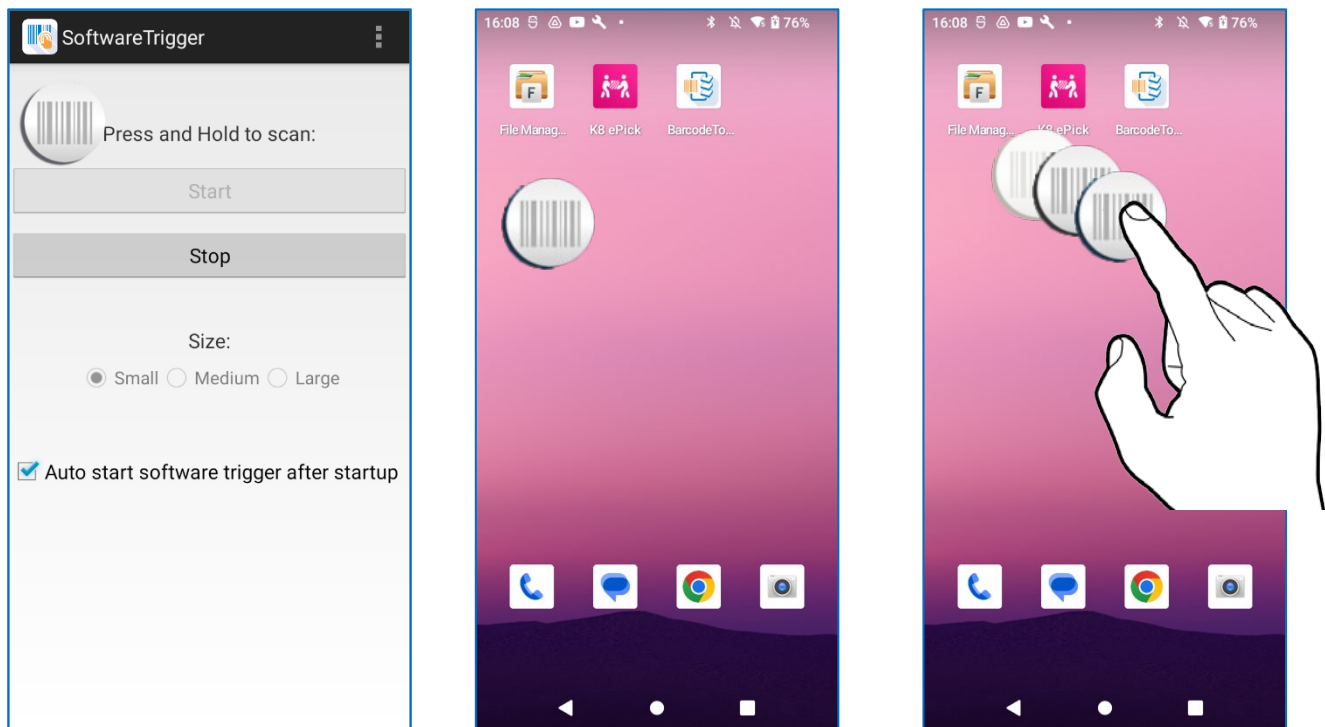
- 2) Select the size of the virtual trigger button:



- 3) Tap **"Start"** to enable the button. You can check **"Auto start software trigger after startup"** to have this application automatically launch right after the device starts up.



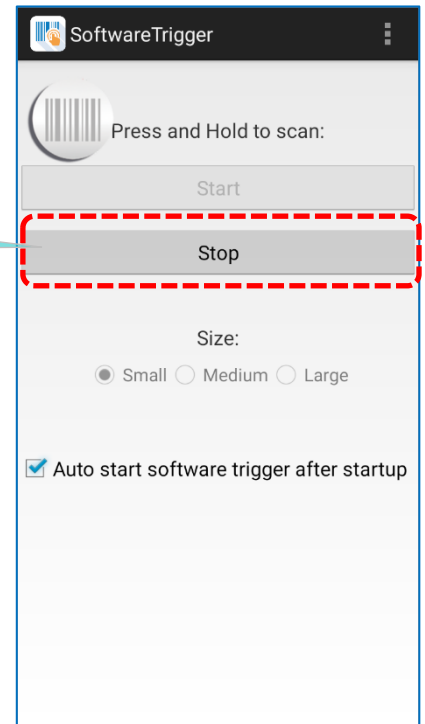
- 4) An always-accessible software keys will appear on your screen. This trigger button can be dragged to the position on the screen where you feel easy to control the trigger.



EXIT SOFTWARE TRIGGER

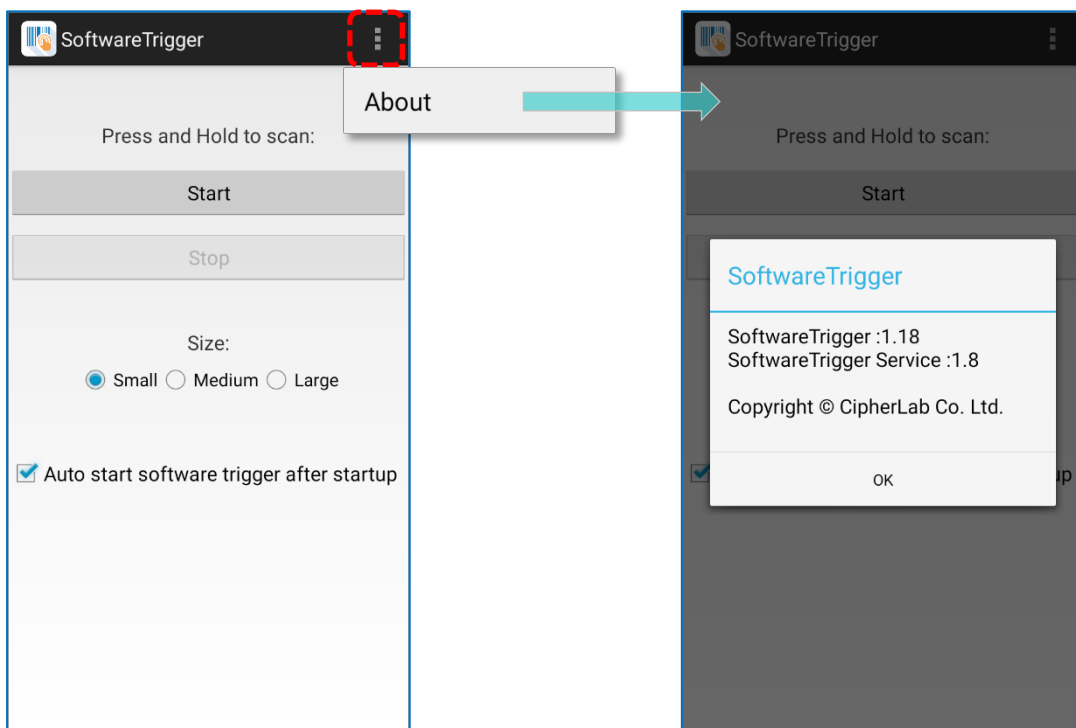
To disable this virtual trigger button, enter **Software Trigger** application screen, and tap "Stop".

Tap to quit "Software Trigger".



VERSION INFORMATION

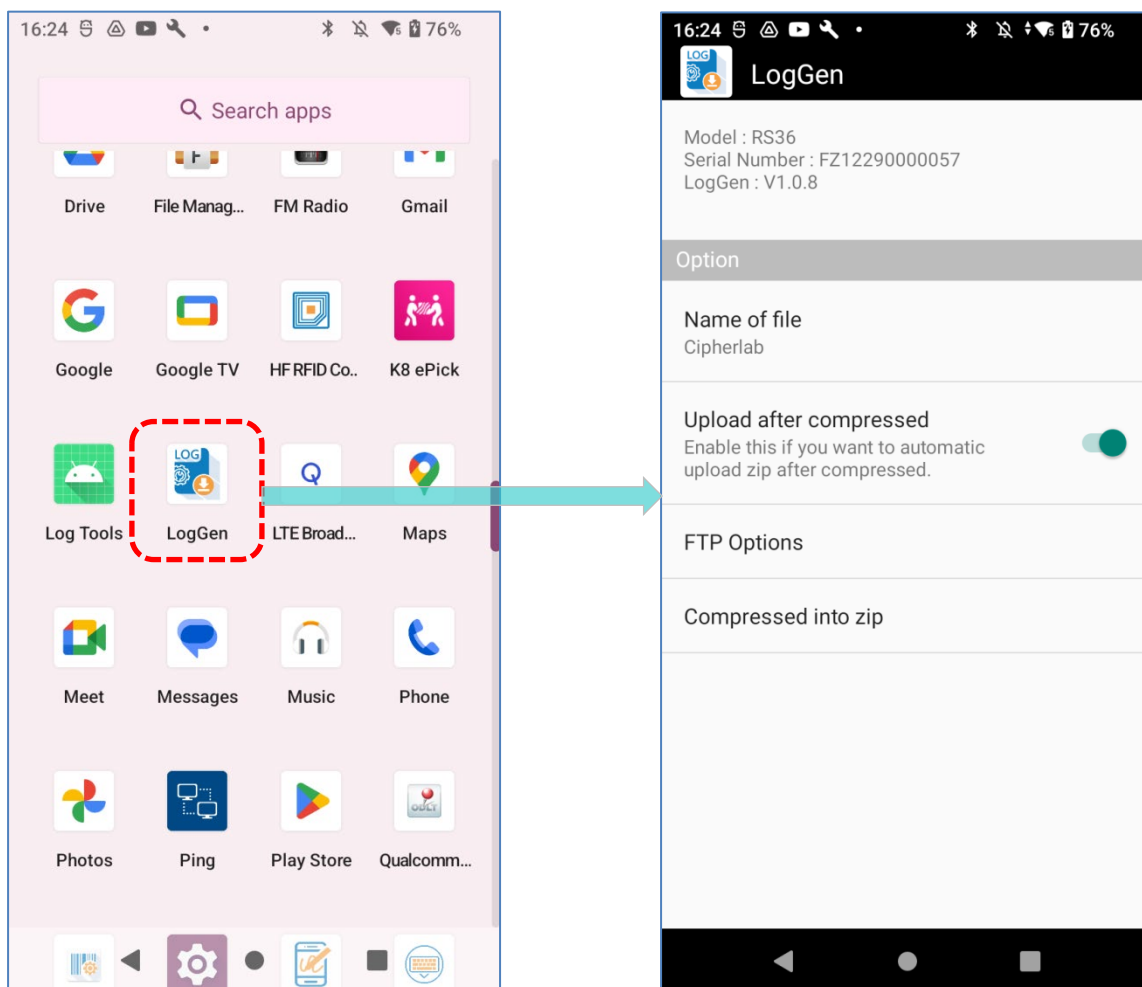
To check the current version of **Software Trigger**, please tap on the more button on the action bar and select "About".



6.12. LogGen



LogGen, a hostlog generator utility, is especially designed to assist on-site operator collecting all event logs (except TE log on Android 11) of mobile computers. Through the tap on one button of this App, logs belonging to this device will be generated easily. Based on the history of these events, IT personnel can simulate the real environment to solve the problem and remove the obstacle occurred locally/remotely.

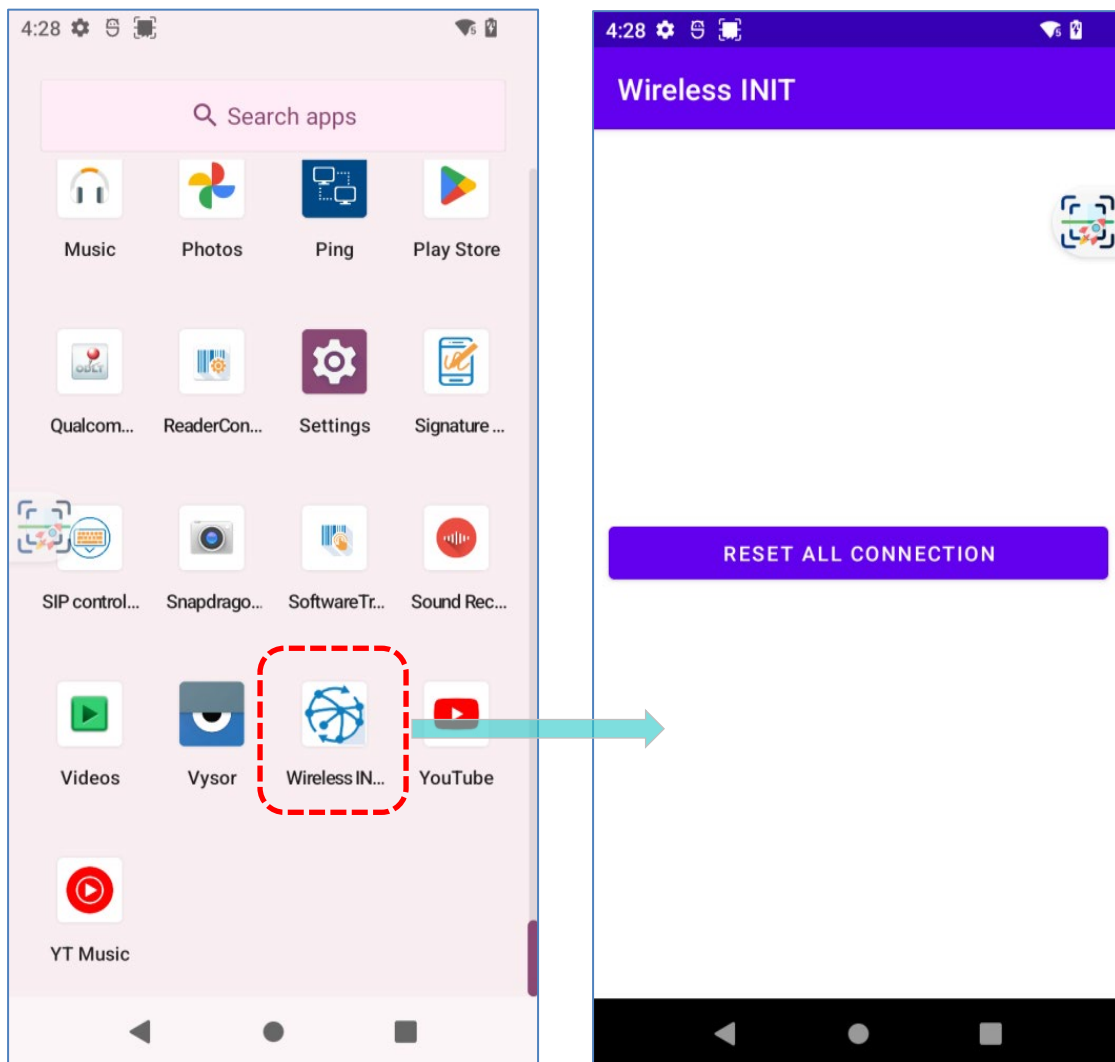


Please refer to [LogGen User Guide for Android](#).

6.13. WirelessInit



Wireless Init, a useful wireless reconnection utility, is especially designed for on-site operators who encounter the unstable network to reset and reconnect all wireless connection, including Bluetooth, Wi-Fi and 4G LTE/5G in action through the tap on one button of this App.



Please refer to [Wireless Init User Guide for Android v1.0](#).


6.14.PING

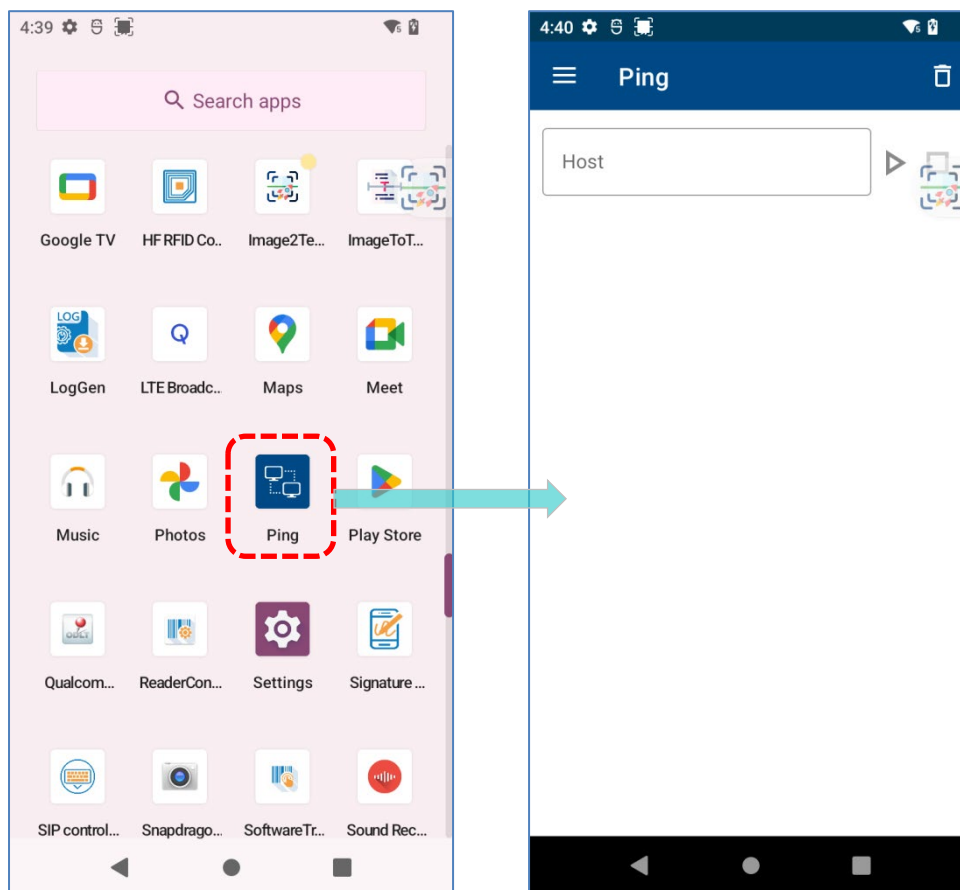



Ping, a handy network diagnostic utility, consists of **Ping**, **Traceroute**, and **Wi-Fi status** three useful tools to diagnose the current network status.

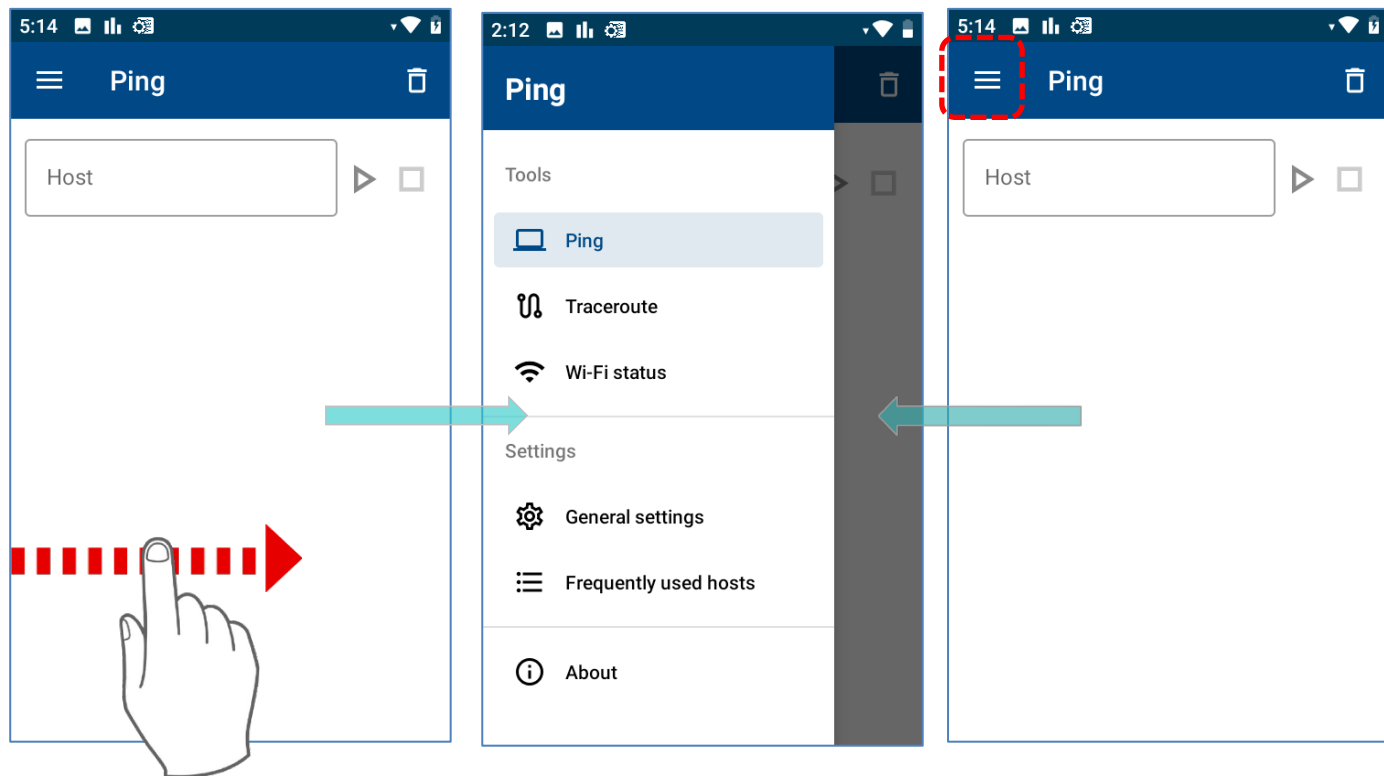
LAUNCH PING APPLICATION

Please follow the steps below to launch **Ping**:

- 1) Go to [App Drawer \(All Apps\)](#) and tap on the app "Ping"  to enter the ping screen directly.



- 2) **Option Menu** containing other functions can be revealed by tapping on the menu button  or swiping from the leftmost side of the screen to the right side.

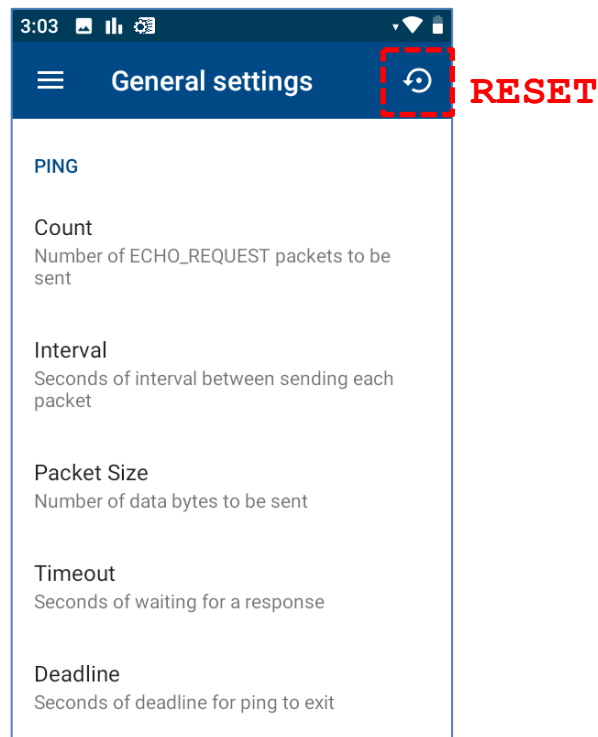


Tool	Description
Ping	To know that if the specific host still keeps alive by entering IP address, domain name or the host name of the remote host.
Traceroute	To track the route packets to a given host by entering IP address, domain name or the host name of the remote host.
Wi-Fi Status	To view the current status of Wi-Fi connection.

GENERAL SETTINGS FOR TOOLS

To configure the tool-related settings, please tap **General Setting** on **Option Menu**. And the following setting page will be displayed. You can reset all settings of this application by

tapping Reset  icon.

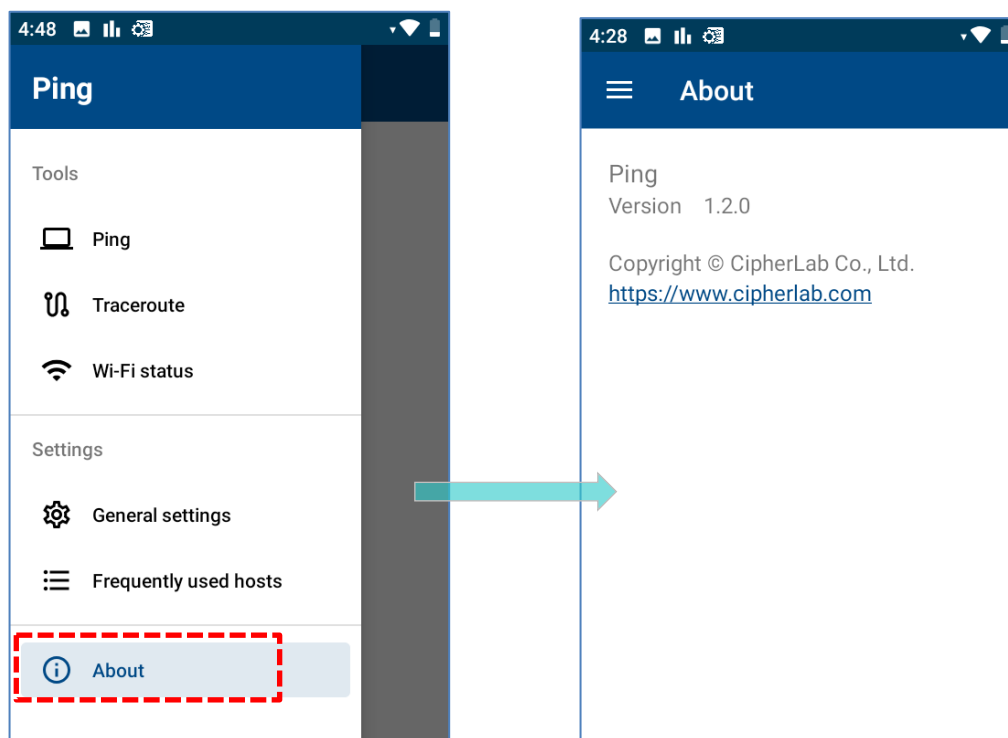


Settings	Description
Ping	
Count	Specify the total amount of packets that will be sent to the destination host.
Interval	Specify the waiting time before sending the next packet to the destination host.
Packet Size	Specify the number of data bytes to be sent. Default packet size is 56 bytes.
Timeout	Specify the waiting time for the host response.
Deadline	Specify the execution time of sending request to the remote host.
TTL	Specify the maximum number of routers that the packet can go through.
ToS (Type of service)	Increase the quality of service for the packet to be sent.

MTU Discovery strategy	<p>Since the default MTU(Maximum Transmission Unit) of Ethernet is 1500 bytes, the packet will break into fragments if the data size is larger than 1500 bytes. You may optionally change MTU discovery strategy for some purpose. Three MTU Discovery strategies we provide are as follows:</p> <ul style="list-style-type: none"> -Prohibit fragmentation, even local one -Do PMTU discovery, fragment locally when packet size is large -Do not set DF flag
Traceroute	
IP address mapping	By disabling the function of IP address mapping, Traceroute tool will only show IP address during tracking route without converting IP address into the host name.
NQueries	Specify the number of probe packets to be sent per hop. By default, Traceroute tool will send 3 probe packets per hop.
Wait Time	Set up the waiting time of the response to one probe for the traceroute. Default waiting time is 5 seconds.
Max TTL	Specify the amount of TTL for the traceroute. Default is 30 (max.).
Wi-Fi Status	
Refresh Rate	Specify the updating refresh rate. Default is 3 seconds.

VERSION INFORMATION

To check the current version of Ping, please tap **About** on **Option Menu**.



SPECIFICATIONS

PLATFORM, PROCESSOR & MEMORY

Operating System & CPU

OS Version	Android 12 with CTS and GMS Certified
CPU	Qualcomm QCM4290 Octa-core up to 2.0GHz

Memory

ROM	64GB Flash
RAM	4GB LPDDR4X RAM
Expansion Slot	One Micro SDHC card slot (up to 32GB) SDXC supported (up to 64GB-2TB) Nano SIM socket x2 (standardx1, optionalx1)

COMMUNICATION & DATA CAPTURE

Communication

USB Client	USB Type-C 2.0 OTG and charging contact
WPAN	Bluetooth® Class II, V5.1 dual mode, V2.1 with Enhanced Data Rate (EDR) (2402~2480 MHz: 7.16dBm)
WLAN	802.11 a/b/g/n/ac/d/h/l/r/k/v/w/mc IEEE 802.11 ax (For WIFI 6 model only) (2412~2472 MHz: 18.33dBm 5180~5240MHz: 19.46dBm, 5260~5320MHz: 20.35dBm, 5500~5700MHz: 20.92dBm, 5745~5825MHz: 20.06dBm)
WWAN	(2G) GSM: 850/900/1800/1900 (850/ 900: 33dBm; 1800 / 1900 : 30 dBm) (3G) UMTS/HSPA/HSPA+ (24dBm): B1(2100), B2(1900), B4(1700), B5(850), B6(850), B8(900) (4G) FDD LTE (23dBm): B1(2100), B2(1900), B3(1800), B4(1700), B5(850), B7(2600), B8(900), B12(700), B13(700), B17(700), B19(800), B20(800), B25(1900), B26(850), B28(700) (4G) TDD-LTE (23dBm): Band38, Band39, Band40, Band41(2545MHz~2655MHz)
GPS	Built-in GPS, GLONASS, BeiDou, AGPS, Galileo

Data & Image Capture

Digital Camera	Autofocus 16 megapixels with LED flash
Barcode Reader	2D imager

HF RFID Reader	Support Card emulation, Card reader, and P2P modes of operation; support ISO14443 Type A & B, ISO15693, and Felica NFC area should be located on the top-side (-19.83 dBuA/m at 10m)
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ELECTRICAL CHARACTERISTICS

Battery

Main Battery Pack	<p>Rechargeable Li-polymer battery: 3.85V, 4000mAh</p> <p>Charging temperature: 0-40°C</p> <p>Minimum charging time: 3 hours @25°C</p> <p>For the first time charging the main battery, please charge it for at least 8 to 12 hours. The allowed battery charging ambient temperature is between 0°C to 40°C. It is recommended to charge the battery at room temperature (18°C to 25°C) for optimal performance.</p> <p>Please note that battery charging stops when ambient temperature drops below 0°C or exceeds 40°C.</p>
Extended battery	<p>Rechargeable Li-polymer battery : 3.85V, 6000mAh</p> <p>Charging temperature : 0-40°C</p> <p>Minimum charging time : 6 hours @25°C</p> <p>For the first time charging the main battery, please charge it for at least 8 to 12 hours. The allowed battery charging ambient temperature is between 0°C to 40°C. It is recommended to charge the battery at room temperature (18°C to 25°C) for optimal performance.</p> <p>Please note that battery charging stops when ambient temperature drops below 0°C or exceeds 40°C.</p>
Backup Battery	<p>Rechargeable Li-Polymer battery</p> <p>Charging time: 4 hours (under the condition that it is always be charged except of power off)</p>
RTC Battery	<p>Rechargeable SMT type Li-battery: 3V, 3mAh</p> <p>Charging time: 12 hours (always be charged)</p> <p>RTC retention will be maintained for at least 72 hours when the main battery is removed.</p>

Power Adaptor

Power Supply Cord with	Input	AC 100~240 V, 50/60 Hz
------------------------	-------	------------------------

Universal Power Adaptor	Output	DC 5V, 2A
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Certification

LTE	CE, FCC, IC, NCC, TBL, JRL, BIS, WPC, WEEE, RoHS, REACH, CA65, TSCA, BC, NrCAN, NBTC
WiFi 6 Only	SRRC, CCC, BSMI, NCC, CE, FCC, IC, WEEE, RoHS, REACH, CA65, TSCA, BC, NrCAN

Working Time

Supports working time for up to 10 hours (2D imager) at 25 degrees

PHYSICAL CHARACTERISTICS

Color Touch Screen Display

Display	5.5 inch, Transmissive IPS LCD, sunlight visibility, Corning® Gorilla® Glass
Resolution	720 X 1440 Pixel

Notifications

Status LED	2 LEDs include one bi-color (green & red) LED for power indications, and one tri-color (blue, green, & red) LED for reader and system notification.
Audio	Speaker, dual array microphones with echo and noise cancellation Bluetooth headset support, Hands-Free Profile (HFP) 1.6 specification with Wideband speech. AMR-WB HD-voice support HAC support

Dimensions & Weight

Dimensions	165mm(L) x 76.8mm(W) x 17.9mm(T)
Weight	288g ±5g

ENVIRONMENTAL CHARACTERISTICS

Temperature

Operating	-20°C to 50°C
Storage	-30°C to 70°C
Charging	0°C to 40°C

Humidity

Operating	10% to 90% (non-condensing)
Storage	5% to 95% (non-condensing)

Resistance

Impact Resistance	1.5m(5ft.) multiple drops onto concrete, 6 faces drop 6 cycles; with protective boot: 1.8m (6ft.) multiple drops onto concrete, 6 drops on each side.
Tumble Test	500 tumbles at 0.5 m per applicable IEC tumble specifications
Splash/Dust Resistance	IP65/IP68 under IEC standard 60529.
Electrostatic Discharge	±15 kV air discharge, ±8 kV contact discharge















PROGRAMMING SUPPORT

















Development Environment & Tools






JAVA	Environment Android studio
	Software Development Kit: JAR
C#	Environment: Visual Studio
	Software Development Kit: DLL (Xamarin Library)

APPENDIX I

APPLICATION MENU

Icon	Name	Description
	A-Demo	An application which gives the brief introduction about CipherLab's applications. Users can launch those apps by tapping "START" on the app's introduction page.
	AppLock	An application used to limit the system resources made available to users.
	BarcodeToSetting	An application for reading the setting barcodes generated by ADC (Android Deployment Configurator) to apply the configuration.
	BT Printer Mate	An application which provides user interface to pair with Bluetooth printers.
	Button Assignment	The application "Button Assignment" can redefine the functions of physical keys so that they trigger different actions. Settings made to one or more keys can be saved as a profile, allowing users to switch conveniently in between different sets of settings.
	Calculator	Performs mathematical calculations.
	Calendar	Creates and manages events, meetings and appointments.
	Camera	Takes pictures and shoots videos.
	Chrome	Chrome is a fast, secure browser built by Google that helps you search, browse, and get things done online.
	Clock	Sets date, time, time zone according to your locale, and sets and manages alarms.
	Contacts	Manages contact information, and shares or exports/imports the information to other devices or SD card.
	Google Drive	Store, access, and share securely with Google Drive, part of Google Workspace.
	Google Meet	Google Meet provides secure, easy-to-use video meetings that work for everyone so that you can connect and collaborate on what matters most.
	Enterprise Settings	An application for "Doze Mode" settings of RS36 mobile computer.

Icon	Name	Description
	File	Browses and manages files on the local storage and storage card.
	Gmail	Connect, create, and collaborate with Gmail, part of Google Workspace.
	Google	Find quick answers, explore your interests, and stay up to date with Discover.
	Google TV	Google TV brings together movies, shows, live TV and more from across apps and subscriptions and organizes them just for the user. And helps the user discover new things to watch with recommendations based on their interests.
	HF RFID Configuration	An application for the configuration of RFID & NFC.
	Maps	Google Maps gives you more than just reliable, real-time navigation. It also helps you find things to do and places you'll love across the world and around the corner. With millions of businesses on Google Maps, you can connect with the places you're interested in, and make your plans happen.
	Messages	Sends SMS and MMS messages.
	Phone	Places and receives calls, accesses voicemail, views call history, manages phone contacts, and adjusts phone settings.
	Google Photos	Google Photos is the home for all your memories to help you find and relive all the moments that matter.
	Google Play	Google Play is your entertainment unbound. It brings together all of the entertainment you love and helps you explore it in new ways, anytime, anywhere.
	Reader Config	Sets scanner preferences, data output format and destination, symbology settings, and reads barcodes.
	Ping	A network diagnostic application which contains the useful tools for analyzing the current network status.
	Settings	Opens settings to configure the mobile computer.
	Signature Capture	A simple and easy application which transforms your device into a signature pad.
	SIP Controller	An application for quickly open or close virtual keyboard by tapping on the floating button.
	Software Trigger	An application serving as a real trigger key, floating on top of all other programs for convenient trigger control of the barcode scanner.

Icon	Name	Description
	Sound Recorder	Records and plays audio information.
	WMDSAgent	Wireless Mobile Deployment System for Android is a windows-based server program that can deploy the configuration projects (created by Android Deployment Configurator) to Android devices through wireless network.
	WMDSInstaller	The WMDSInstaller will fetch the latest WMDS Agent version over the Internet and then perform auto-installation.
	YouTube	Enjoy your favorite videos and channels with the official YouTube app.
	YouTube Music	The world of music dedicated to you.

APPENDIX II

OPEN SOURCE LICENSE

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