POINT *Mobile*

For Android™ 15

Rugged Tablet

TR54

User Manual

Instruction

This manual provides information about basic features and using the TR54. Please read this manual carefully before using your device and peripherals to ensure safe and proper use.

 Note: Screenshots in this manual may differ from actual screens.

Revision History

Revision	Date	Description
V0.1	12 May 2025	Initial Draft (For Certification)
V0.2	10 June 2025	Revised Terminology and Wording in UI and Catalog

Note Descriptions

This manual provides various types of notes to highlight important or detailed information.

 Note: Supplementary information to support product usage.

 Notice: Recommended precautions to ensure safe usage of the product

 Caution: Potential risks that may cause physical or systemic damage if not observed.

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Table of Contents
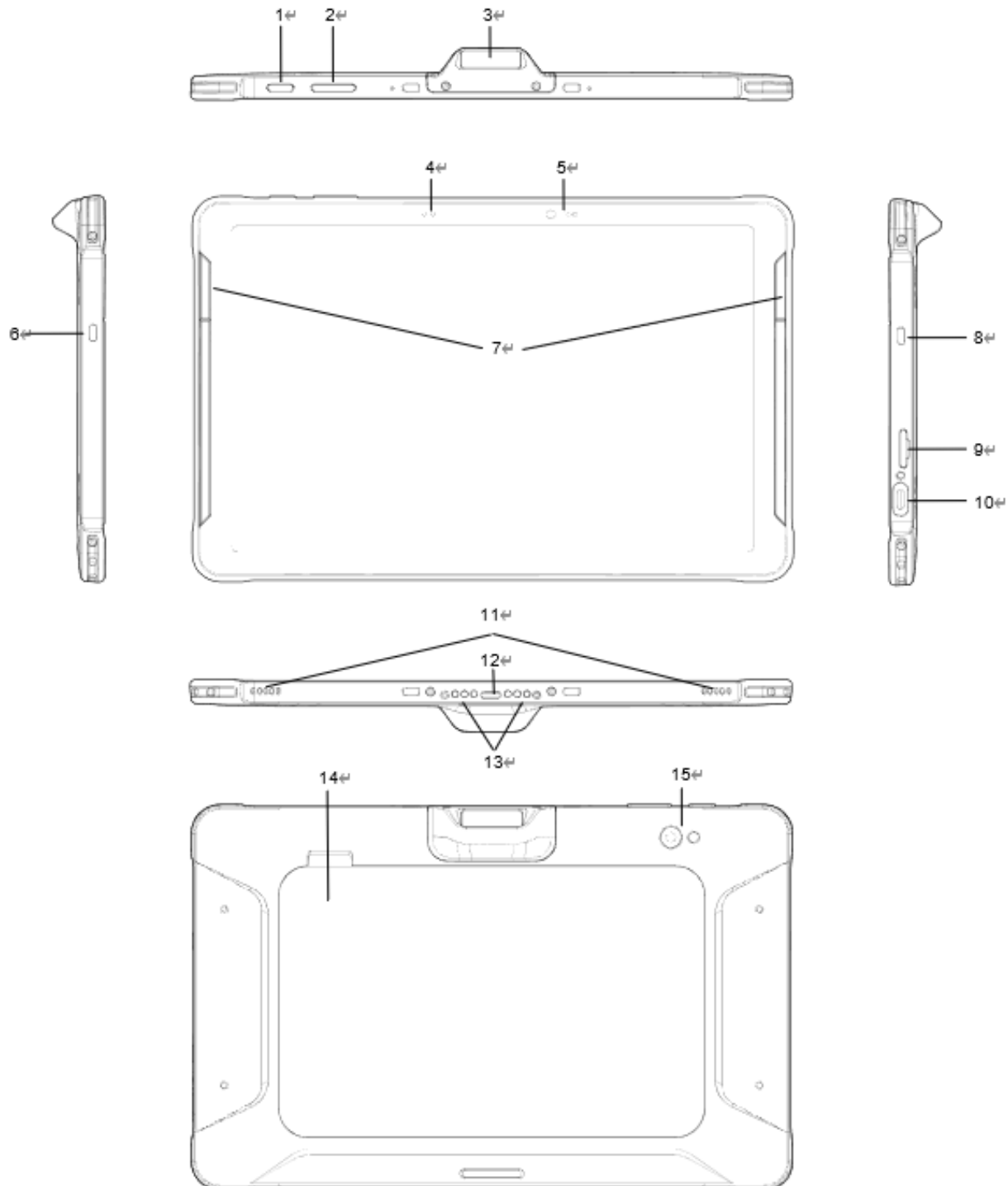
Getting Started

Tablet Features

Scanner-Integrated Model (45° Angle)

Figure 1 TR54 (Scanner Type – 45° mount)

Getting Started

Getting Started

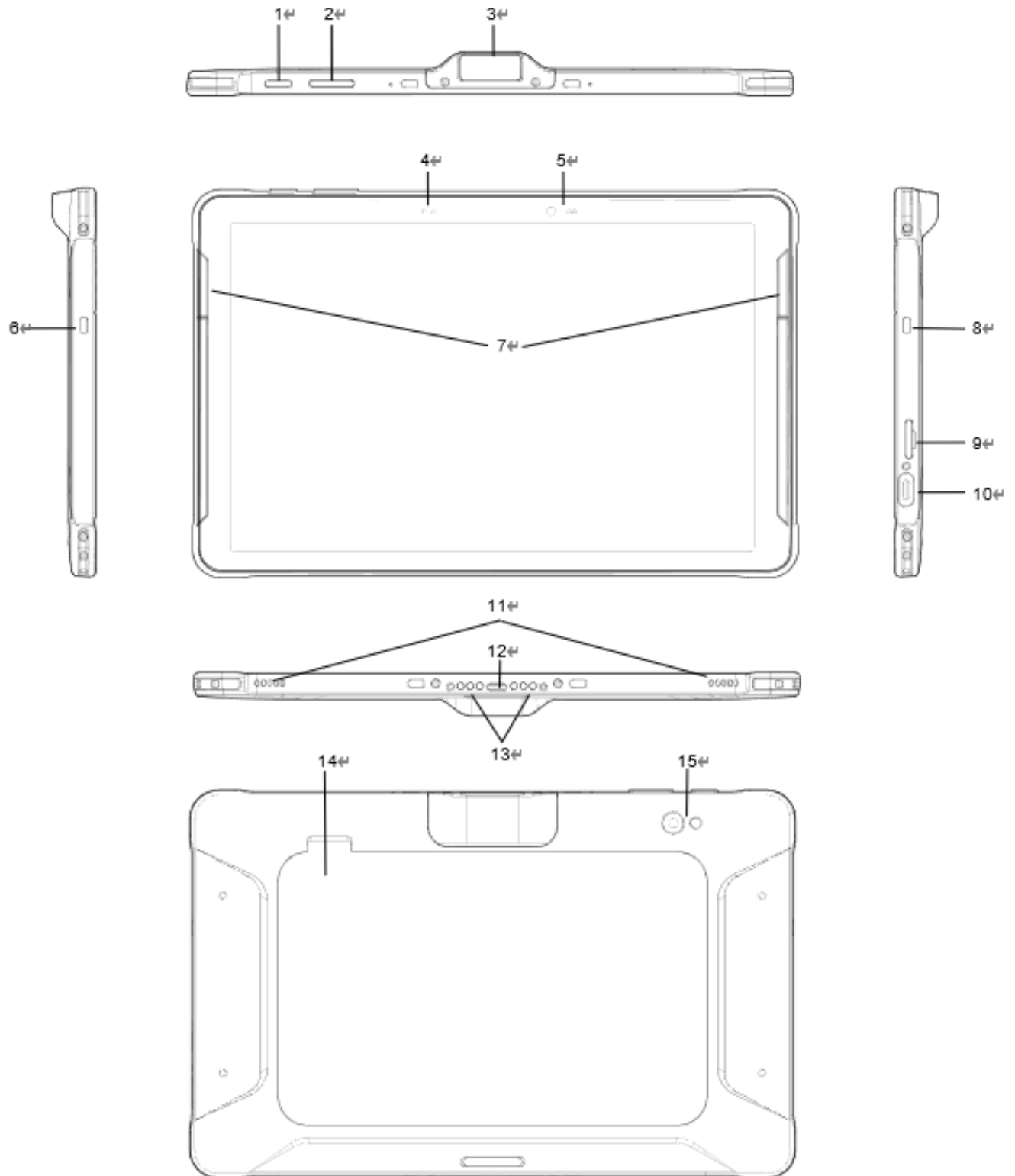| No	Name	Description
1	Power Button	Turns on/off the device
2	Volume Buttons	Controls the volume (Programmable)
3	Scanner	Scans barcodes
4	LED Indicator	Indicates the power status and notification. (Find more details in LED indicator)
5	Front Camera	Takes a photo
6	Kensington Security Slot	Connects a Kensington lock for theft prevention.
7	Scan Button	Push to scan a barcode (Programmable)
8	Kensington Security Slot	Connects a Kensington lock for theft prevention.
9	Card Tray	Holds microSD and SIM cards
10	USB Connector (Charging & Data)	USB Type C connector for charging and data communication
11	Speaker	Rings system sound
12	USB Connector (Charging & Data)	USB Type C connector for charging and data communication
13	I/O Connector for Cradle	Connector for charging and communication with cradle
14	Battery Cover	Protects the battery from impact and detachment
15	Rear Camera & Flashlight	Takes a picture & Use flashlight in camera or torch mode

Note: All USB ports operate only in USB Host mode and do not support communication with a PC.

Getting Started

Scanner-Integrated Model (Standard angle)

Figure 2 TR54 (Scanner Type – standard angle)

Getting Started

Getting Started

No	Name	Description
1	Power Button	Turns on/off the device
2	Volume Buttons	Controls the volume (Programmable)
3	Scanner	Scans barcodes
4	LED Indicator	Indicates the power status and notification. (Find more details in LED indicator)
5	Front Camera	Takes a photo
6	Kensington Security Slot	Connects a Kensington lock for theft prevention.
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15	Rear Camera & Flashlight	Takes a picture & Use flashlight in camera or torch mode

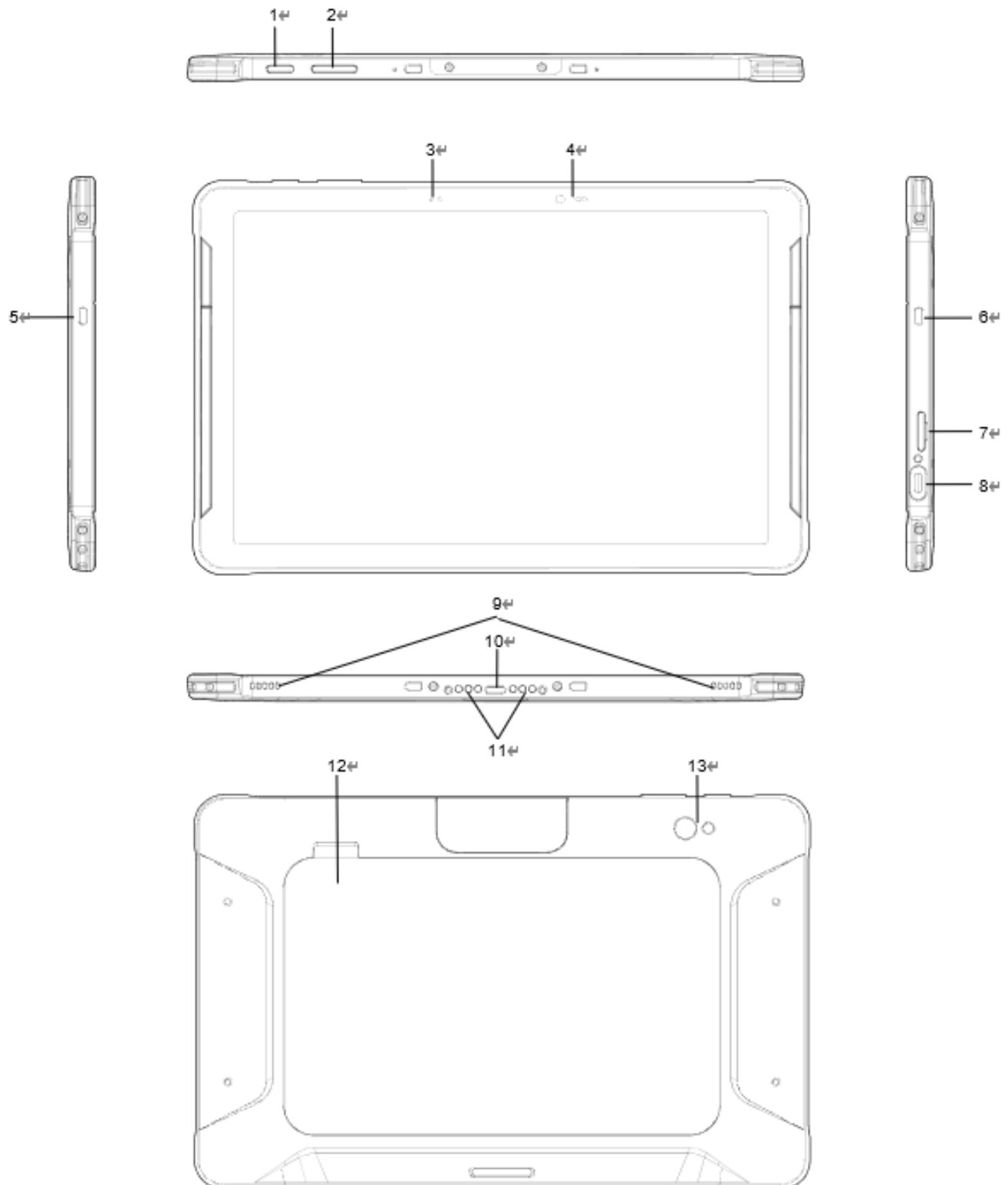*Note: All USB ports operate only in USB Host mode and do not support communication with a PC.*

Getting Started

Non-Scanner Model

Figure 3 TR54 (Scanner Excluded Type)

Getting Started

No	Name	Description
1	Power Button	Turns on/off the device
2	Volume Buttons	Control the volume (Programmable button)
3	LED Indicator	Indicates the power status and notification. (Find more details in LED indicator)
4	Front Camera	Takes a photo
5,6	Kensington Security Slot	Connects a Kensington lock for theft prevention.
7	Card Tray	Holds microSD and SIM cards
8	USB Connector (Charging & Data)	USB Type C connector for charging and data communication
9	Speaker	Rings system sound
10	USB Connector (Charging & Data)	USB Type C connector for charging and data communication
11	I/O Connector for Cradle	Connector for charging and communication with cradle
12	Battery Cover	Protects the battery from impact and detachment
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Note: *All USB ports operate only in USB Host mode and do not support communication with a PC.*

Getting Started

Standard Package Accessories

The product package includes the following items.

Accessory	Name
	Battery
	Power Adapter
	AC Plug
	USB C Type Cable

Note: *The images may differ from the actual accessory*

Getting Started

Install SD & SIM Card

TR54 supports

- 1 microSD card
- 1 nano-SIM Card - Applicable only to models supporting LTE

You can find the card tray on the right side of the tablet. Pull out the tray to install the SIM or microSD card,
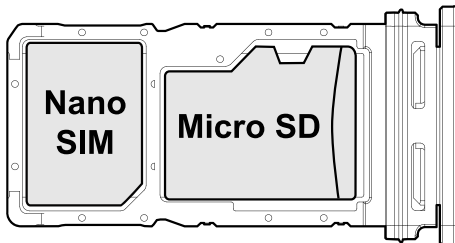
1. Locate the card tray next to the USB port on the right side of the tablet.
2. Use the notch on the card tray to pull out from the slot.

Figure 4 Open the card Slot
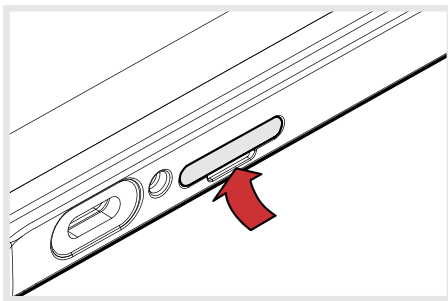
3. Place the nano-SIM card and microSD card into the appropriate slots, making sure they are aligned correctly. (card tray with the card's gold contact is facing down)

Figure 5 Card Tray Layout

4. Insert the card tray back into the tablet..

⚠ **Caution:** *Do not push or pull the tablet's card tray too hard. The card tray may be damaged.*

Getting Started

Install eSIM

1. Connect a Wi-Fi network.

2. Go to **Settings** ⚙ > **Network & internet**, and tap **SIMs** or **+**.

3. Tap **Download a new eSIM**.

4. Download an eSIM by following the instructions. If you get a QR code from a network provider, scan the QR code.

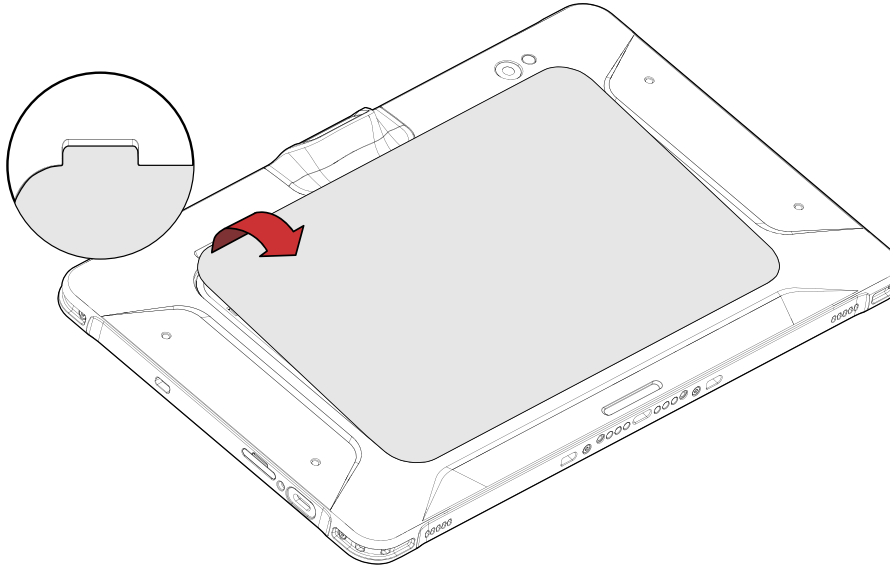5. From the SIMs screen, select the downloaded SIM and turn on the **Use SIM** switch.

ⓘ   *Note: Depending on the network provider, eSIM or the network service may not be supported.*

Install & Remove Battery

Install the battery

1. Lift the corner of the battery cover up from the notched area and carefully remove the battery cover from the device.
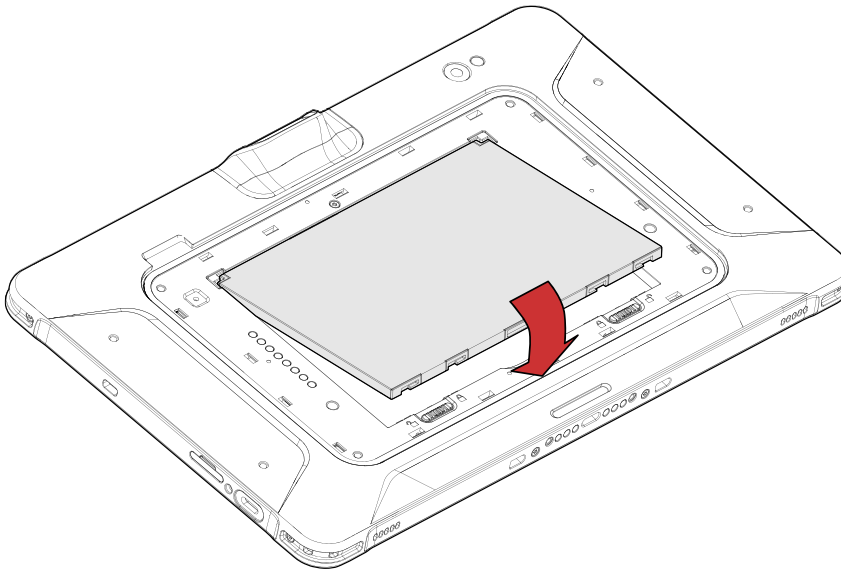
Figure 6 Install the battery – 1

Getting Started

2. Place the battery into the compartment, contact side first.

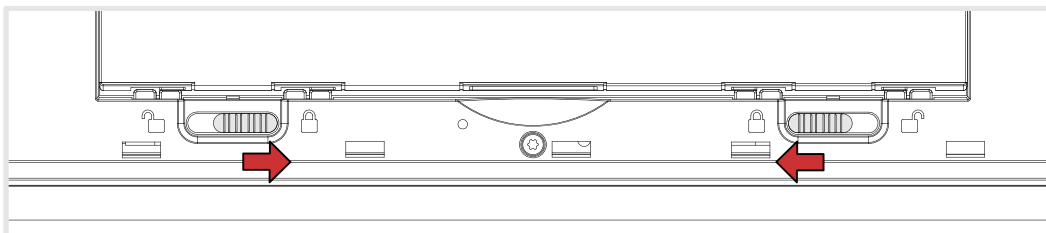Figure 7 Install the battery - 2

3. Slide both battery locks (located below the battery slot) toward the 🔒 until it clicks, indicating that they are securely locked in place

> 📢 **Caution:** *Slide the lock all the way in the direction of the arrow*

Figure 8 Install the battery - 3

Getting Started

Remove the battery

1. Lift the corner of the battery cover up from the notched area and carefully remove the battery cover from the device. (*See Figure 6*)

2. Slide both battery locks (located below the battery slot) toward the 🔓 until it clicks, indicating that they are unlocked.
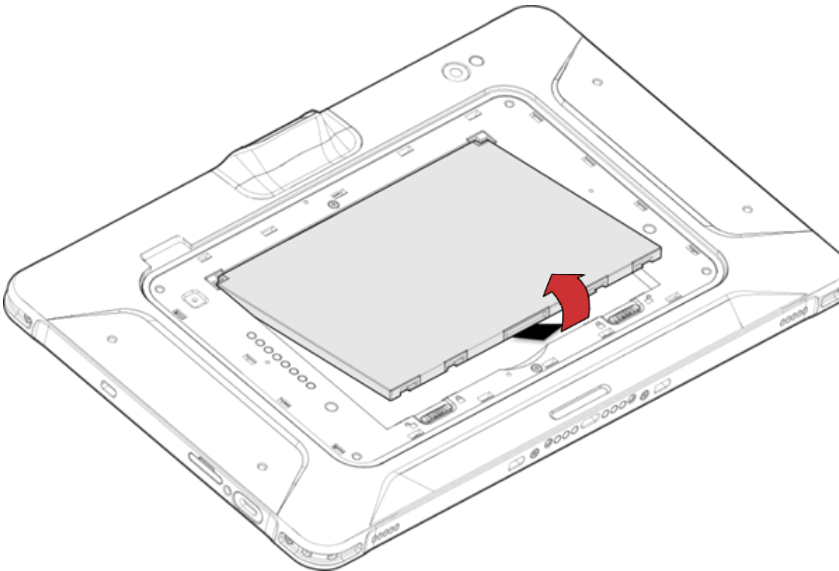
> 📢 **Caution:** *Slide the lock all the way in the direction of the arrow*.

Figure 9 Remove the Battery - 1
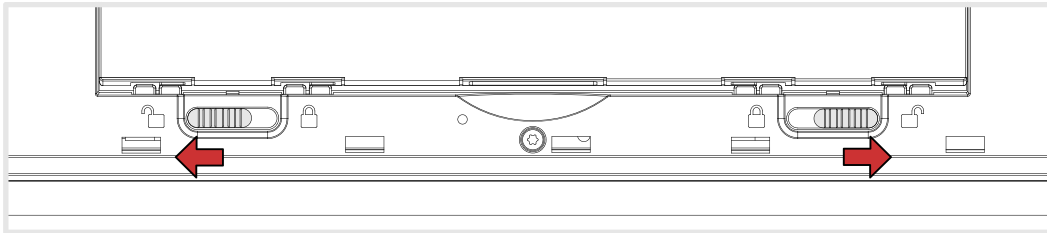
3. Lift the strap located at the bottom center of the battery up to remove it.

Figure 10 Remove the battery - 2

Getting Started

Battery hot swap

Battery hot swap is a feature that allows users to replace the battery without powering off.
TR54 supports two types of hot swap mode, Enterprise Hot Swap, and Legacy hot swap. Basically, the device enters Enterprise Hot Swap mode. You can change the preferred hot swap mode in EmSettings.

Enterprise Hot Swap

Enterprise hot swap allows the device to maintain Wi-Fi/Bluetooth connectivity and memory persistence even when detaching the battery. Users can earn time to replace the battery without stopping the ongoing task or disconnecting the Bluetooth devices.

But, as the backup battery with a smaller capacity than the main battery takes over to maintain the system, users are highly recommended to replace the battery within 30 seconds (30 seconds countdown displays). And some mitigations are activated to conserve power consumption.

- Reducing display brightness to about 10%
- Disabling NFC, Scanner
- Lowering sound volume

Once the user replaces the battery with a charged one, the device will come back to normal operation mode without booting process.

> **Caution:** *Do not change any settings or perform actions that may increase power consumption for device stability.*

Legacy hot swap

When the battery is removed from the device, the display turns off, the device enters Hot swap mode and waits for battery replacement.

Once you replace the battery to a new one, the device will come back to normal operation mode without booting process.

Getting Started

Charge the Device

Before using TR54, charge the device enough to use. TR54 can be charged with power adapter or charging cradle. For best charging performance and safety, follow the normal charging temperature.

> ⚠️ **Warning:** *Always use an original charger and cable from POINT MOBILE. Other chargers and cables may damage TR54. Also, make sure the charger and cables are not wet.*
>
> *Follow the Battery Safety Information for safety of using the battery.*

Battery specification

- Capacity: 8,000mAh
- Rechargeable & Removable battery

Charging temperature

Charge devices and batteries in temperatures from 0 ℃ to 45 ℃. At out-of-normal range temperatures, the TR54 may stop charging for safety, and the power LED blinks red.
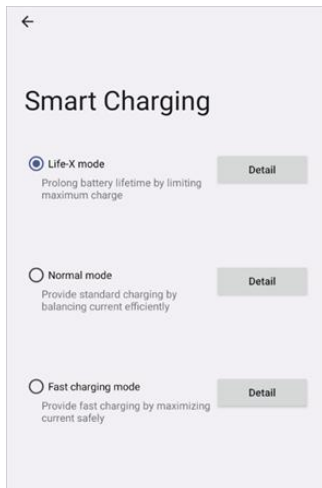
Getting Started

Smart Charging

TR54 supports three charging modes to provide optimal battery performance for your work.

- **Life-X mode (Default)**
    - An optimized charging mode that improves the battery's lifespan and stability.

- **Normal mode**
    - A typical charging mode.

- **Fast charging mode**
    - A charging mode that charges the battery faster than the other modes.

To change the smart charging mode, go to **Settings** > **Battery** and select **Smart Charging**.

Figure 11 Smart Charging

Getting Started

Charge with power adapter

1. Assemble the AC/DC adapter, AC plug, and "USB-C to USB-C" cable.

2. Connect the "USB-C to USB-C" cable to the USB port located on the right or bottom side of the TR54.

3. Provide power by plugging the power adapter to the wall socket.
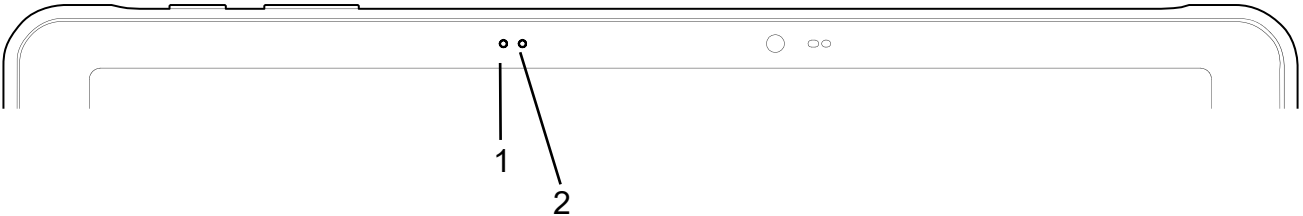
Figure 12 Charge TR54 with power adapter
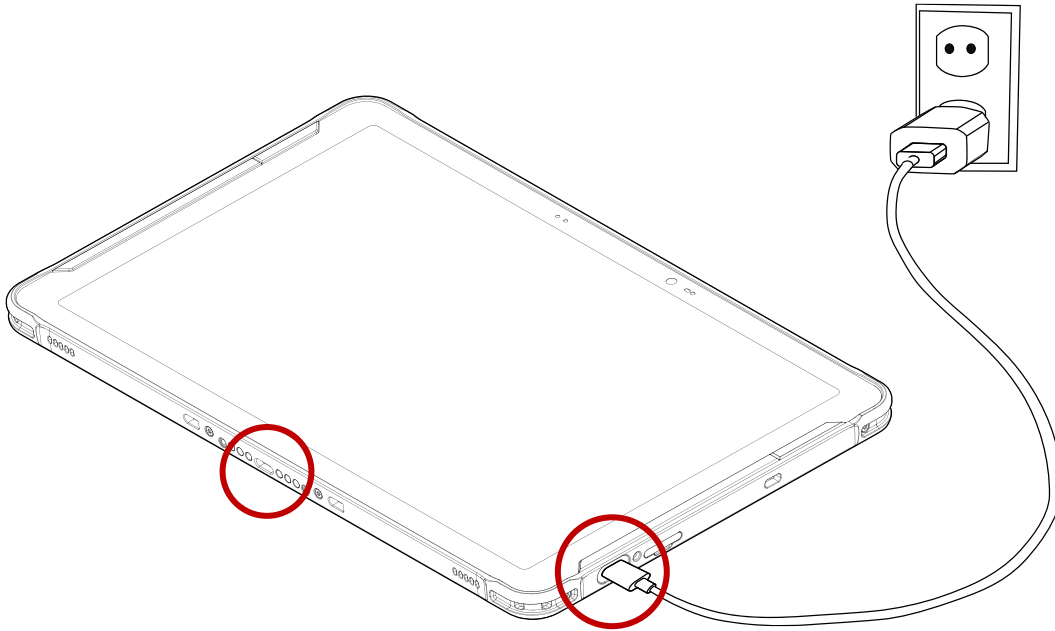
Getting Started

LED Indicator

TR54 has 2 LED indicators above the screen.

Figure 13 TR54 LED Indicator

| No	Indicator	Status	Indication
1	Power LED	Solid green	Device is completely charged
		Solid red	Device is charging / Battery is low
		Blinking red	Charging temperature is out-of-normal range (Refer to Charging temperature) / Battery is very low
		Alternately blinking red & green	Cannot recognize the battery
2	Notification LED	Blinking blue	Notification existing
		Red flash	Barcode reading failed
		Blue flash	Barcode reading success

Getting Started

Turn On / Off the Device

To turn on the device,

- Press and hold the power button on the left side of the device until **SMART BEYOND RUGGED** logo displays on the screen.
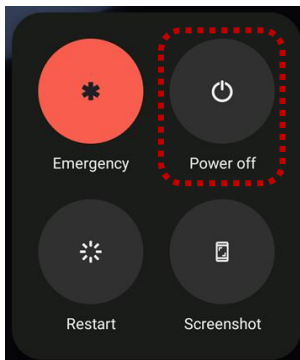
Figure 14 TR54 Power Button
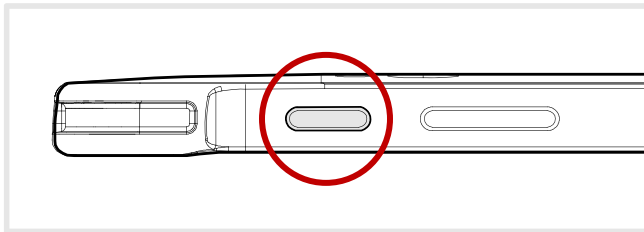
To turn off the device,

- Press and hold the power button when the display is on until the power menu is shown. Then, tap **Power off**.
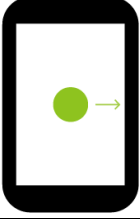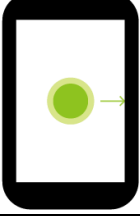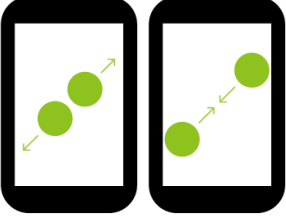
Figure 15 Power Menu - Power Off

Getting Started

Use a Touch Screen

Controlling the touch screen

| Gesture	Description
	Tap One-finger press
	Long-press One-finger press, wait, lift for select action
	Drag, Swipe, or Fling One-finger press, move, lift for scroll or tilt action
	Long-press drag One-finger press, wait, move, lift for pick up and move, or select multiple items action
	Pinch Open & Close Two-finger press, move outwards and inwards, lift for **zoom in / out** action
	Rotate When TR54 is turning sideways, **screen orientation is changing**

Getting Started

System navigation

Navigation bar (Software button)

The navigation bar is enabled as a default, and it is located at the bottom of the screen. The app overview button, home button, and back button are placed on the bar in order.

Figure 16 Navigation Bar
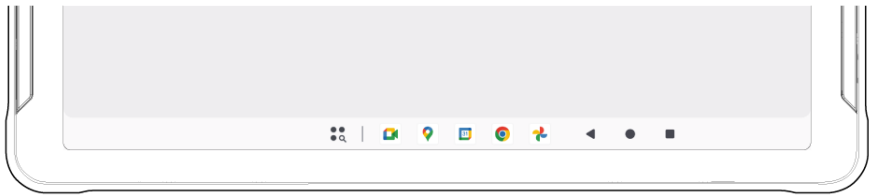
Shape	Button	Function
◀	Back button	Tap to go back to previous screen.
●	Home button	Tap to go to home screen. Long-press to launch the Google Assistant.
■	Recent apps button	Tap to see the recently used app list.

Getting Started

Gesture Navigation

If you are unfamiliar with the navigation bar or you want to see the screen with a wider screen, hide the navigation bar. The functions provided by the software buttons on the navigation bar can be used by using specific gestures.

To hide the navigation bar, navigate to **Setting** ⚙ **> System** > **Gesture > System navigation** and change the setting to **Gesture navigation**. Then, the navigation bar will be hidden.

ℹ️ *Note:* To use the navigation bar again, change the setting to *3-button navigation*.

Figure 17 Gesture Navigation

Find the gestures and matched function in the table below.

Function	Gesture
Open recent apps screen	Swipe up from the bottom of the screen, hold, then release.
Go to home screen	Swipe up from the center-bottom of the screen.
Back to previous screen	Swipe from the left or right edge of the screen.
Launch Google Assistant	Swipe up from either the left-bottom or right-bottom.

Touch Sensitivity Settings

You can adjust the touch sensitivity to suit various usage environments (e.g., rainy outdoor conditions or when wearing gloves)

Select the appropriate sensitivity option based on your environment. Comfort Glove Touch or Cotton Glove Touch option increases sensitivity to detect even softer touch input.

In contrast, selecting the Wet Touch lowers the sensitivity to prevent unintended touches caused by rain or moisture.

1. Navigate to **EmKit** > **EmSettings**
2. Select **Touch Sensitivity**.
3. Select the option that best suits your environment. The default setting is **Finger & Stylus**
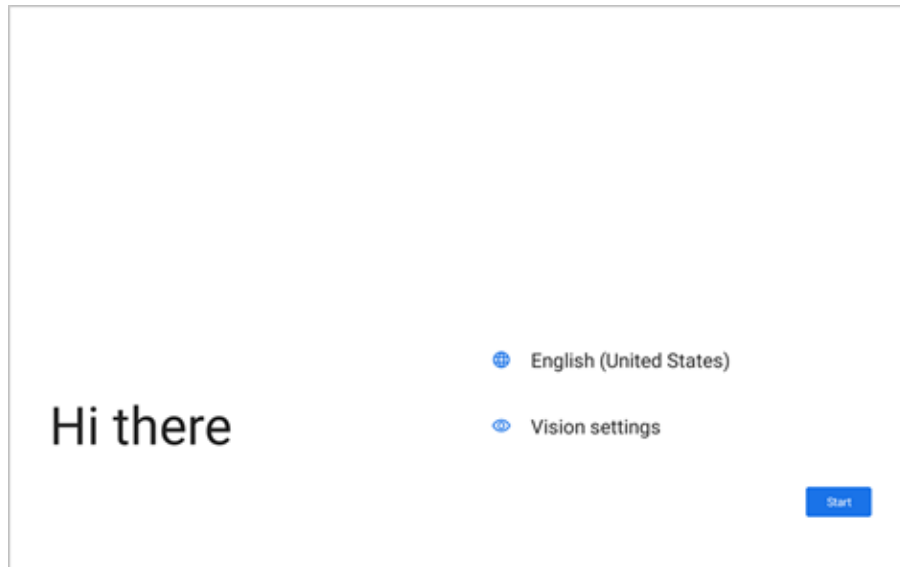
Learning the Basics

Setup Wizard (GMS OS only)

When TR54 starts very first time or boot after factory reset, Setup Wizard is launched. Following the steps on the screen, set system language, Google account, Wi-Fi connection and copy the data, etc.

Some settings can be skipped, but there may be some restrictions on the use of the system.

Figure 18 Setup Wizard

Learning the Basics

Home Screen

Move to the home screen by tapping the home button on the navigation bar or swiping up from the center bottom of the screen depending on the System navigation setting. You can find the status bar, open the notification panel, or place apps or widgets on the home screen.

Status bar

Time, status icons, and notification icons are on the Status bar.

Status icons

The current status of the tablet is shown through icons located on the right side of the status bar

| Icon	Description	Icon	Description
LTE	LTE connected	3G	3G connected
	Strong signal		Weak signal
HD	VoLTE enabled		Connection issue
	Hotspot enabled		Data disabled
	Airplane mode		No data connection
	Connected to a Wi-Fi network		Connected to a Bluetooth device
	Battery is full		Data communication
	Battery is critical low		Battery is low
	Battery is charging		Cannot recognize battery
	Data Saver enabled		Batter Saver enabled
	Location service turned on		Alarm is set
	Scanner turned on		Phone mic is mute
	Scanner turned on, but trigger turned off		

Learning the Basics

Notification icons

Icon	Description	Icon	Description
✆	Missed call	💬	New SMS or MMS message
✉	New Email	🔑	Connected to VPN network
📅	Upcoming event	⌨	Other input method available
⬆	File uploaded	⬇	File downloaded
📄	File copied	⚕	OTG device connected
⬤⬤⬤	There are more notifications		

Notification panel

Notification panel displays a list of all notifications. Tap a notification to respond.

To open the Notification panel, drag the Status bar down. To close the panel, swipe it up.

Figure 19 Notification Panel
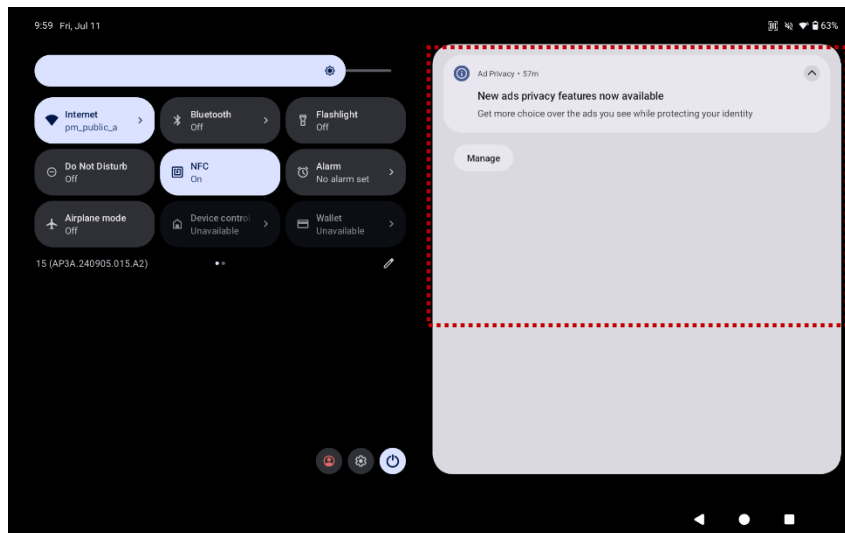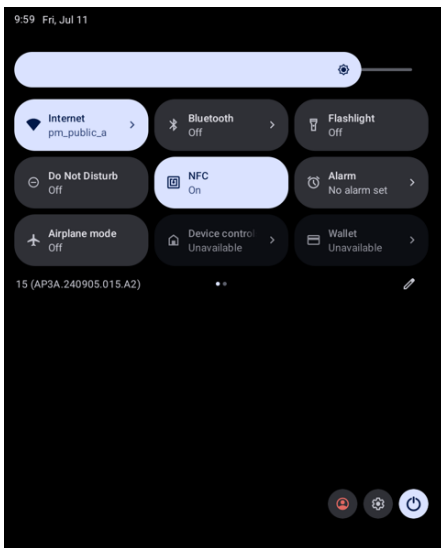
Learning the Basics

Quick setting panel

Quick setting panel contains some frequently used settings such as Wi-Fi, Bluetooth, etc.

To use the Quick setting panel,

1. Open the Notification panel.

2. Drag down the Notification panel.

3. Tap a setting icon to enable / disable the setting or long-press an icon to see more detail

Figure 20 Quick setting panel

To edit the configuration of Quick setting panel,

1. Tap ✎ on the bottom of the panel.

2. By long-press and dragging the icon, customize the configuration of the panel.
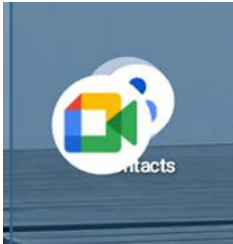
Learning the Basics

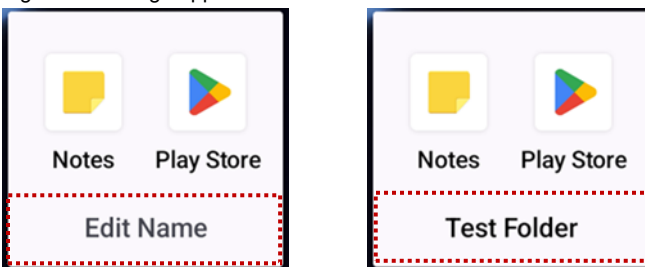## Apps & Widget

App folder

To create the app folder, long-press an app icon and drag it to another app icon.

Figure 21 Create app folder

.

To change the folder name, tap the **Edit Name** and input a new name.

Figure 22 Change app folder name

Learning the Basics

App drawer

All installed apps are listed alphabetically in App drawer.

- To open the App drawer, swipe up the Home screen.

- When using the navigation bar, tap the ⚫⚫ icon to access the app drawer

- To close the App drawer, swipe down the screen.
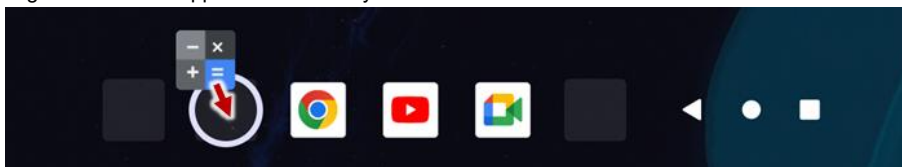
Figure 23 App Drawer
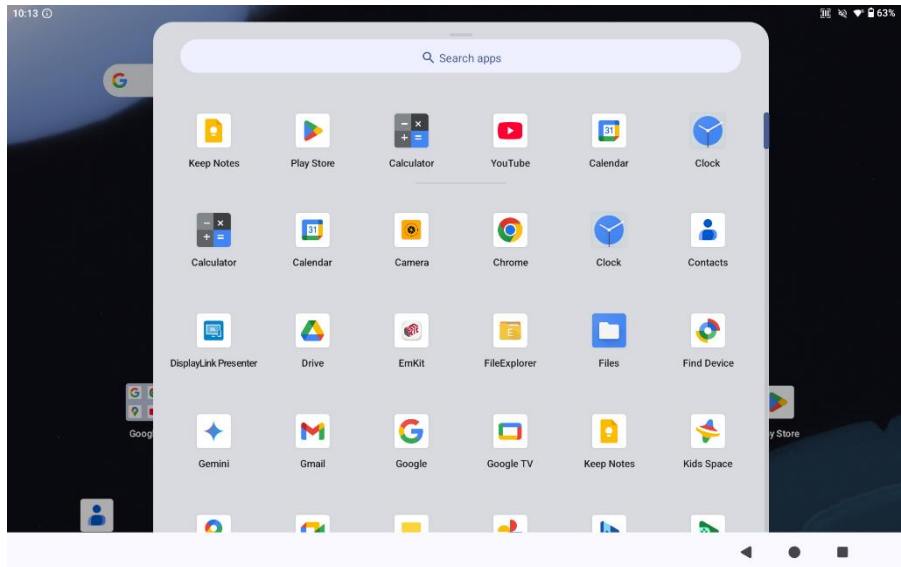
Favorites tray

To organize an app in the favorites tray,

1. Long-press an app icon from the App drawer. Then, drag it slightly until the Home screen is shown.
2. Place the app icon in the Favorites tray.

Figure 24 Add an app to Favorites tray

Learning the Basics

Organize app in Home screen

To organize an app in the Home screen,

1. Long-press an app icon from the App drawer. Then, drag it slightly until the Home screen is shown.

2. Place the app icon where you want.

   (To cancel to place the app, drag it to **Cancel** area and release.)

Figure 25 Place app in Home screen
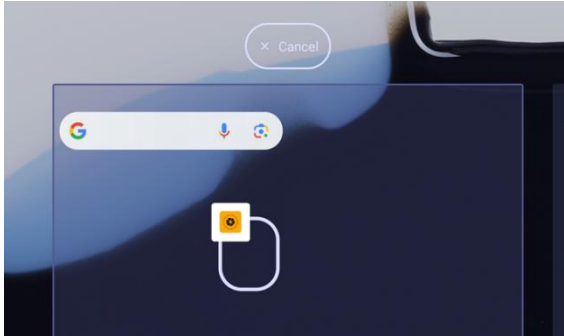
To remove an app or widget in the Home screen,

1. Long-press an app icon or widget.

2. Drag it to **Remove** area and release.

Figure 26 Remove from Home screen
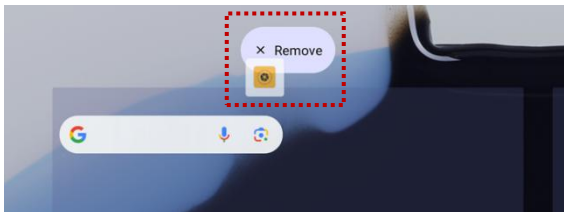
Learning the Basics

Widget

To add a widget in the Home screen,

1. Long-press the empty space of the Home screen.

2. In three menus, select **Widgets**.

    Figure 27 Widget

3. Among the list, tap and hold a widget you want to add.

4. Place the widget to the Home screen by dragging.

Learning the Basics

Manage the Files

Use the FileExplorer app to access files stored on the tablet's internal storage and SD card

Figure 28 FileExplorer main screen

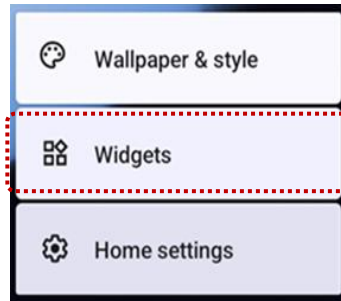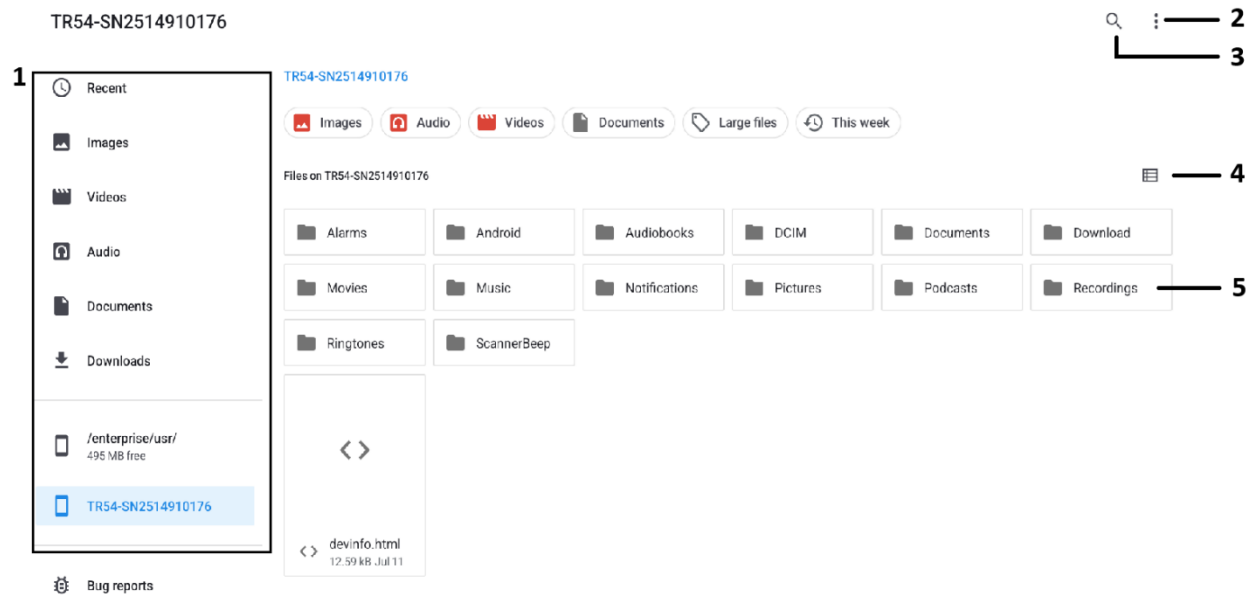| No	Description
1	Select media file type or storage
2	Open the advanced option – Create a new window or folder, Select all files and folders, etc.
3	Search a file
4	Change the view of file list
5	Tap a file or folder to open. Or long-press a file or folder to select

Learning the Basics

Long-press a file (folder) or tap the icon which is located beside of file name to select the file (folder).

Figure 29 FileExplorer screen when file selected

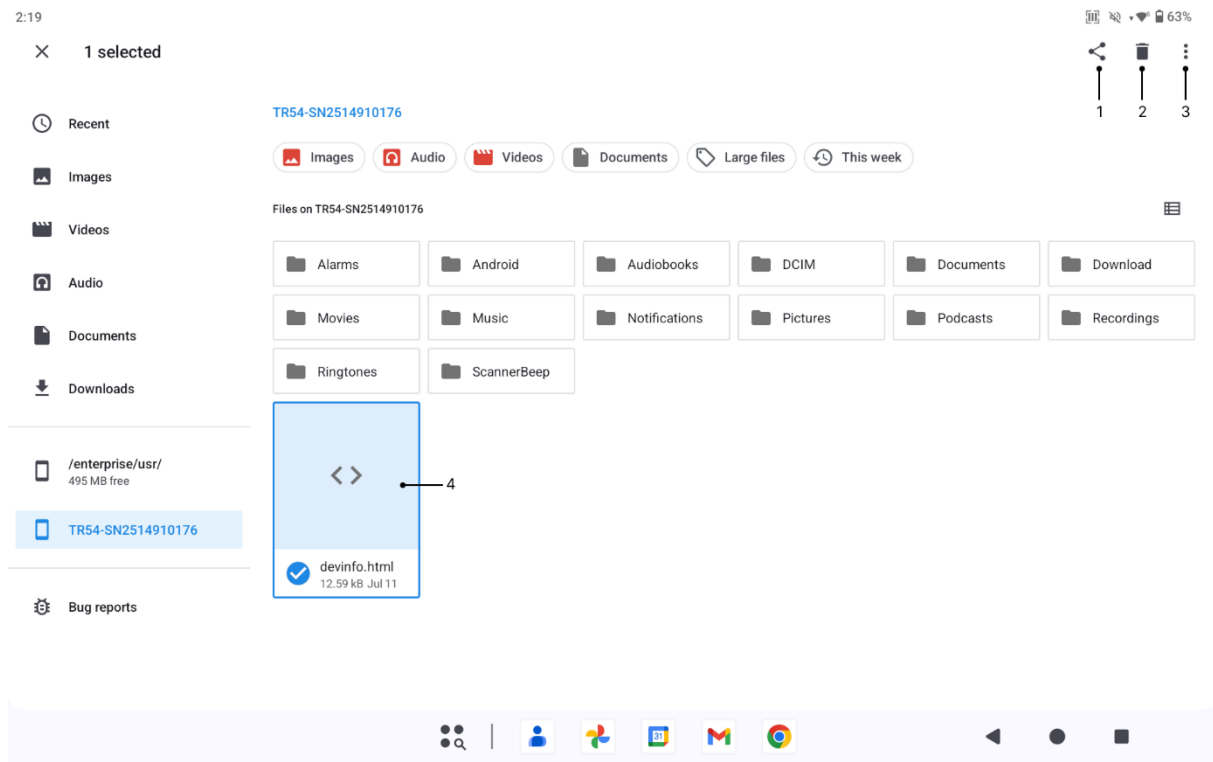| No	Description
1	Share the file via Bluetooth / Gmail / Google Drive, etc. (Sharing is possible only with files)
2	Delete the files or folders
3	Open the advanced option - Open with: Select which app to open the file - Sort by…: Sort the list by file name, size, type, etc. - Select all: Select all files and folders - Copy / Move to: Copy or move the file to a new location - Compress: Create Zip file with the selected files or folders - Rename: Rename the file or folder - Get info: Display the file information
4	Selected file or folder is highlighted

Learning the Basics

Lock the Screen

Protect the device from unauthorized personnel by setting up the screen lock.

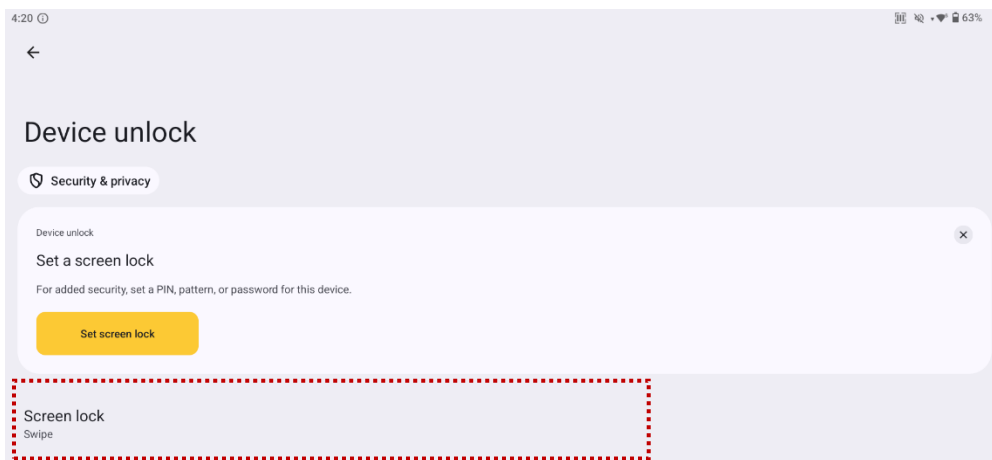1. Navigate to **Settings** ⚙ > **Security**.

2. Select **" Device Unlock"**

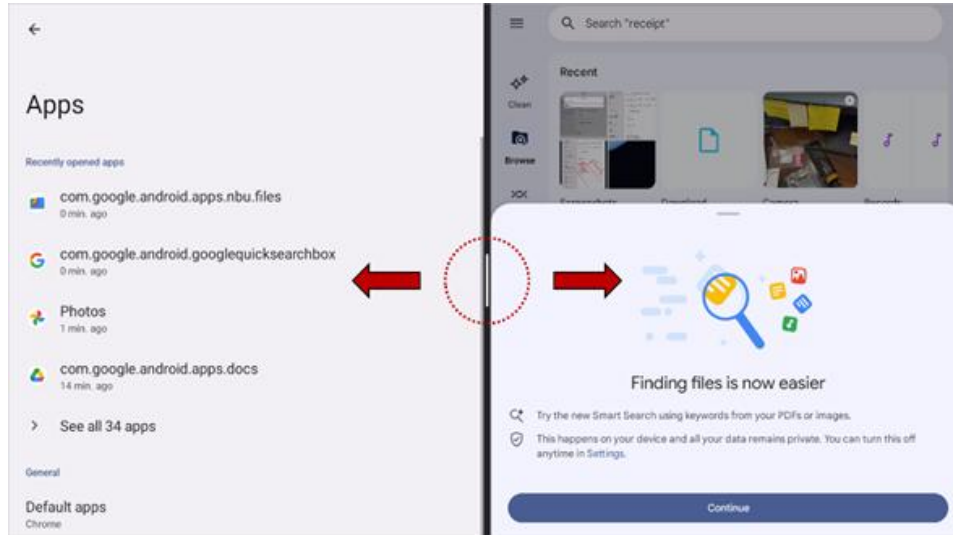3. Tap **Screen lock**.

4. Choose a screen lock method.

Figure 30 Device Unlock

- None: Screen unlocks immediately
- Swipe: Swipe the lock screen to unlock (Default)
- Pattern: Draw a pattern to unlock
- PIN: Input a PIN to unlock (At least 4 digits)
- Password: Input a password to unlock (At least 4 characters)

Learning the Basics

Figure 32 Adjusting Multi Window

Multi Window

Display two apps together on a split screen.

To set multi window,

1. Tap Recent app button ⬜ on the navigation bar.

   If you are using the gesture navigation, swipe up from the bottom of the screen, hold, and then release.

2. Tap the split icon at the bottom of the screen. The current app will appear on one half of the display.

3. Swipe the screen to find another app you want to display on the split screen and tap the following app.

You can adjust the split screen size by dragging the border. If you drag the border to the edge of the screen, the multi window will be exited.

Figure 31 Selecting Multi Window
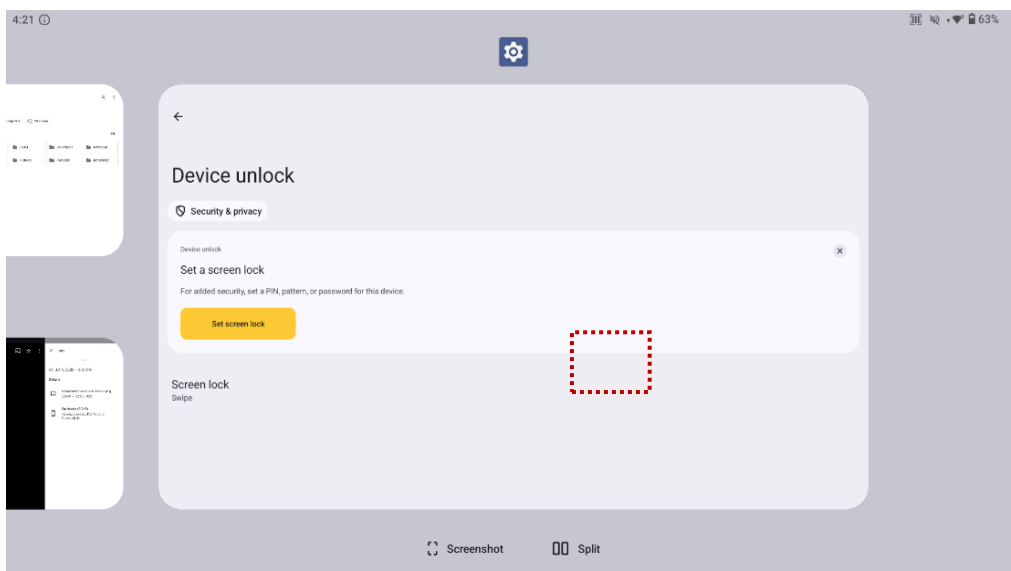
Learning the Basics

Screen Cast

ⓘ ***Notice:*** *Check if the screen device (TV) you want to connect supports the screen mirroring feature.*
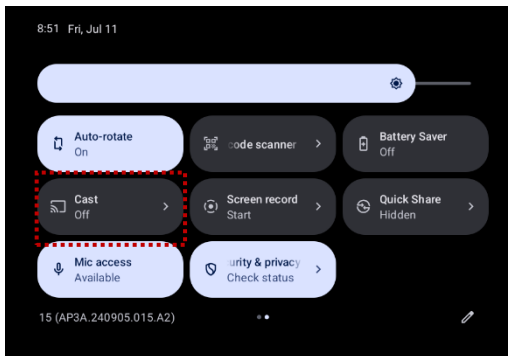
Mirror the tablet screen to the bigger screen such as TV with wireless connection.

1. Select **Cast** in Quick Setting panel.
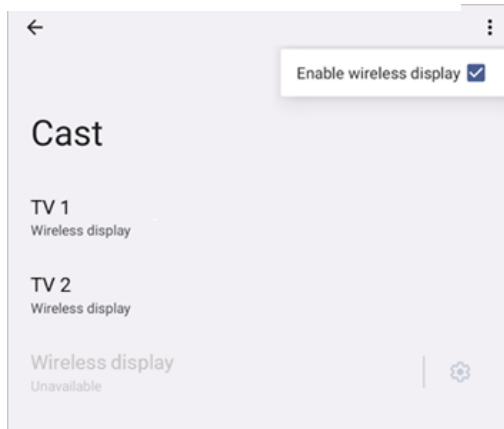
Figure 33 Quick Settings Panel – Cast

2. Tap Settings.

   (Alternatively, go to **Settings** > **Connected devices** > **Connection preferences** > **Cast**.)

3. rom the list of available nearby devices, select the display you want to connect to.

   If the device cannot search the device you want, tap **⋮** and select **Enable wireless display**.

Figure 34 Screen Cast

Learning the Basics

Settings

There are two ways to go to **Settings**:

- Open the App drawer and tap **Settings** ⚙

- Open the Quick setting panel and tap gear icon ⚙

Adjust display brightness

To adjust the display brightness level,

- Open Quick setting panel and adjust display brightness bar

- Go to **Settings** ⚙ > **Display** > **Brightness level**

Figure 35 Normal Brightness   Figure 36 above 80% brightness level

⚠ **Caution:** *Using high brightness levels for long periods may cause eye strain and increase battery consumption.*

Adjust sound

To adjust sound volume, go to **Settings** ⚙ > **Sound** to control the volume bars.

Figure 37 Volume bars

⚠ **Caution:** *Using high volume levels for long periods may cause ear strain and increase battery consumption.*

Learning the Basics

Adjust display and text size

If the display and text size of the screen is too small or too large, adjust the size.

1. Go to **Settings** ⚙ > **Display** > **Display size and text**.
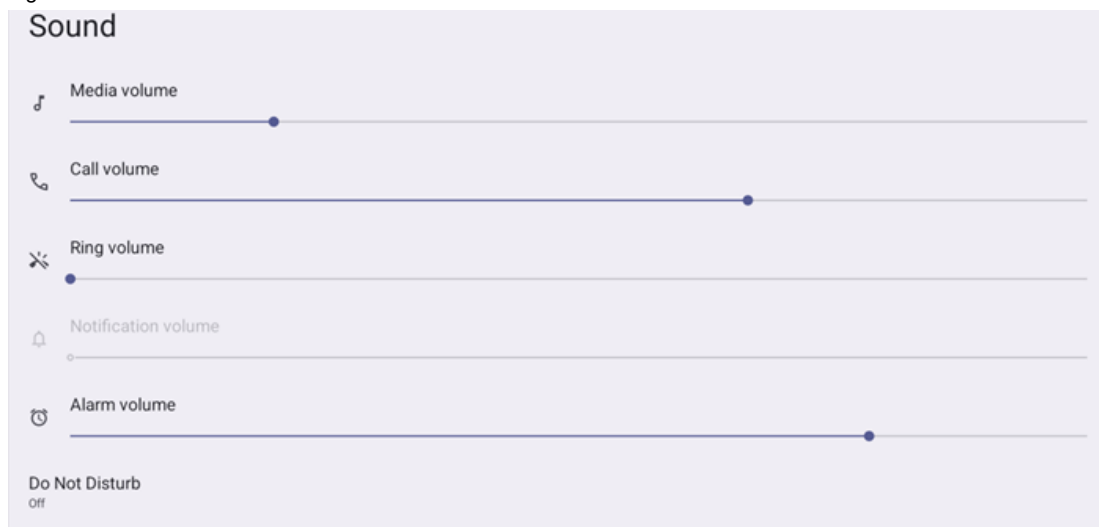
2. Referring to the **Preview**, set the font size.

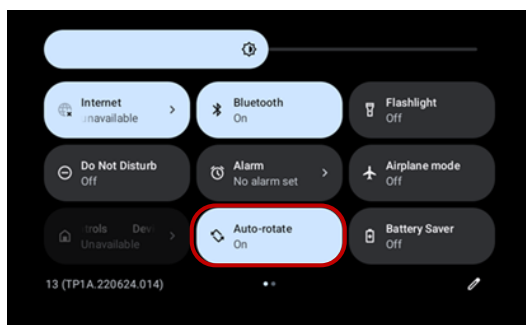Figure 38 Set display and text size
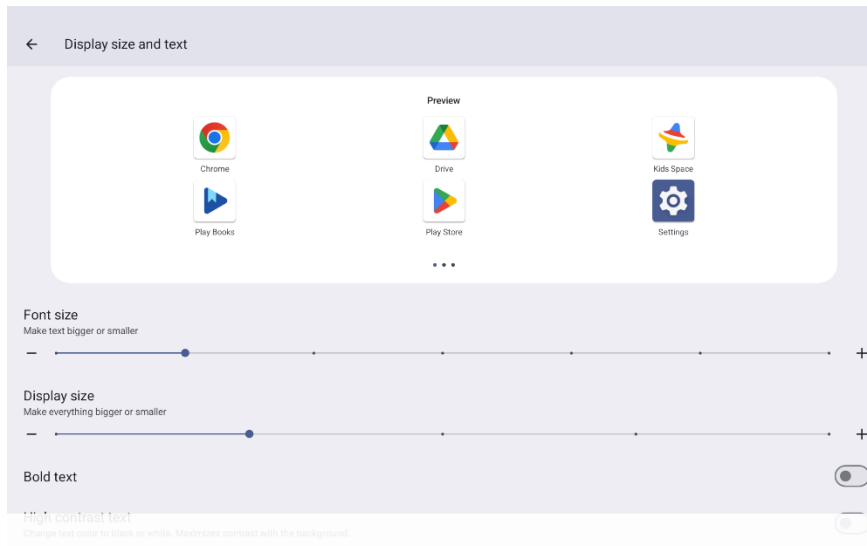
Auto-Rotate

Screen will automatically rotate based on the orientation in which you are holding the TR54 when **Auto-rotate** is enabled.

To use this feature, turn on the **Auto-rotate** switch from **Settings > Display** or from the **Quick Settings panel**.

Figure 39 Enable Auto Screen Rotation

Using the Buttons

Screenshot

To take a screenshot, use one of the two ways as below.

- Press and hold **Power button + Volume down button** simultaneously.
- Press and hold the power button, and then tap **Screenshot** among the power menus.
- Tap the Recent Apps button on the navigation bar, then select **Screenshot**

The screenshot image will be saved to **Pictures > Screenshots** folder in the internal storage.

Program Buttons

Most buttons on the TR54 except power button can be optimized as you want. To map the button to other functions from default,

1. Navigate to **EmKit** 🎲 > **Program Buttons** 🔴
2. Tap **SMART REMAP**. And press a button you want to remap.

   Figure 40 Program Buttons – Button List
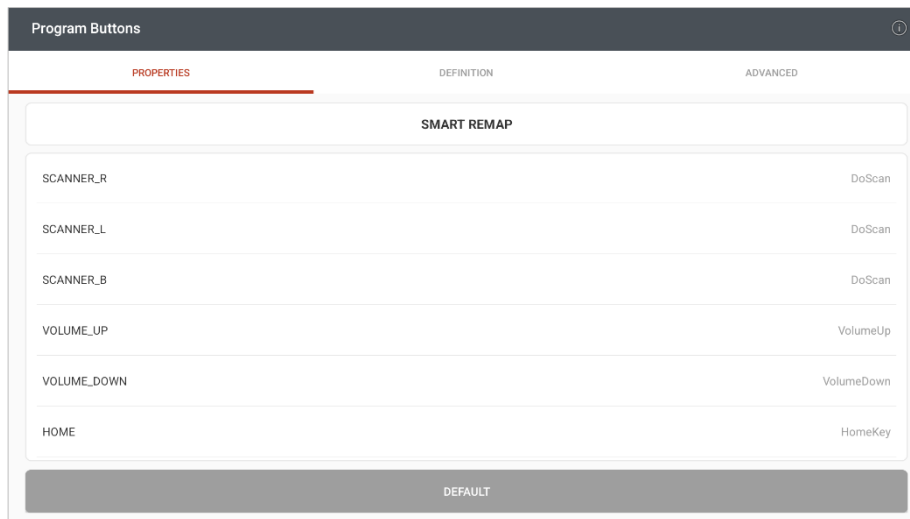
3. Choose a behavior you want to use among the tabs.
4. Tap **APPLY**.

Camera

To use the camera, open App drawer and tap Camera application .

Figure 41 Camera main screen
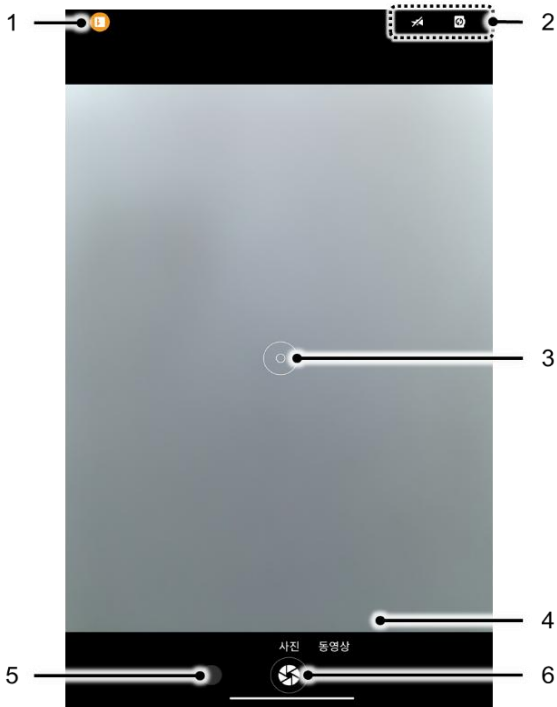
No	Name	Description
1	Mode	Select the appropriate mode based on the target (Normal / QR Code)
2	Advanced camera option	⚡A : Set flash mode (Activate / Deactivate / Auto mode) 🔄 : Switch the camera (Front / Rear)
3	Focus zone	You can change the focusing area by touching the other area
4	Mode change button	Change the Camera or Video mode
5	Gallery	Tap to see the recently taken pictures
6	Shutter button	Take a picture or recode a video

Scanner

Scanner is placed on the top of the device. Optimize the scanner settings for working environment and improve the efficiency.

Turn on / off the Scanner

The scanner is turned on by default. You can check the scanner status by the icon ⦙III⦙ on the status bar. If the icon displays, the scanner is turned on.

If the scanner is turned off, follow the steps to turn it on.

1. Go to **EmKit** 🎁 or **Settings** ⚙ and tap **ScanSettings**.

2. Tap toggle button to turn on the barcode scanner.

3. Check if the scanner icon ⦙III⦙ is placed on Status bar.

Figure 42 Turn on the Scanner

Scanner

ScanSettings

When the scanner is turned on, scanner setting menus will be displayed. **ScanSettings** consists of

- Basic
- Options
- Notification
- Wedge
- Symbologies
- About

Basic

Control the scanning options and wedge mode options or set up the IP Send feature to transmit data via an IP address.
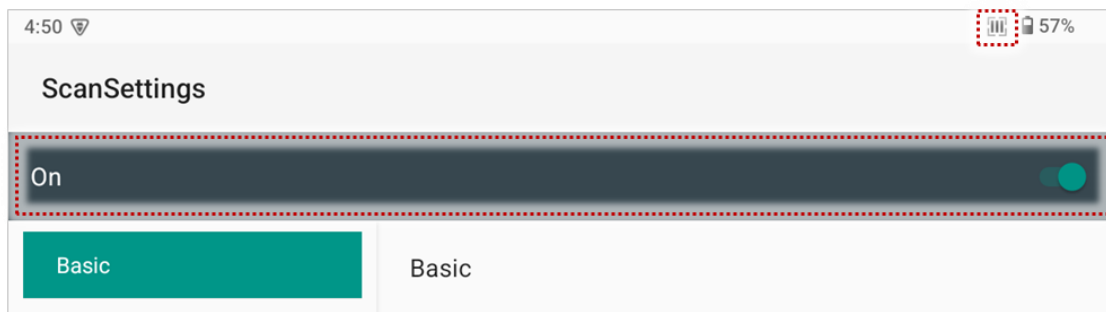
1. Scanning
   - Scan Mode
     - Single scan: Reads on barcode per trigger action
     - Multi scan: Reads multiple barcodes with a single trigger action
     - Auto scan: Barcodes are scanned automatically at set intervals after a single trigger activation
     - Continuous scan: Reads barcodes continuously during a single trigger operation
   - Trigger timeout: Set the duration the trigger remains active while waiting for a barcode to be scanned
   - Touch scan: Enables an on-screen scan button. You can place the button in a convenient position and tap it to scan barcodes easily
2. Wedge mode
   - Result Type: Select the method for delivering scanned barcode data.
     - User Message: Delivers data using SDK APIs
     - Keyboard Event (Multiple/Single): Sends data as keyboard input events
     - Clipboard (KEYCODE_PASTE/ Ctrl + V): Copies data to the clipboard for pasting.
     - Intent Broadcast: Sends data via a pre-defined intent provided by POINT MOBILE
     - Custom Intent: Sends data via a user-defined intent
   - Terminator: Choose a terminator to be appended to the end of the barcode data.
     (None / Space / Tab / LF / Tab & LF)
   - Intercharacter Delay: Adds a delay between characters when transmitting barcode data.
     (This option is only applicable when the result type is set to Keyboard Event (Single).)
   - Wedge as keys: Process specific characters (ASCII code) among the scanned data as if they were typed directly via a keyboard, sending keycodes corresponding to each character. The following

Scanner

feature automatically moves between input fields or proceeds to the next step by simulating Tab or Enter key presses

(This option is only applicable when the result type is set to Keyboard Event (Multiple).)

- Default: 9, 10, 13 (Tab, LF, CR)

(Able to specify up to 5 codes and separate each code with comma (,).)

Options

configure options related to scanning and decoding behavior

- Center window: Only reads barcodes located near the center of the scanner's recognition
- Clear data: Replaces any existing data in the input field with newly scanned barcode data.

(This option is only available when the Result Type is set to Keyboard Event or Clipboard.)

- Aimer: Enables or disables the aimer (laser or LED aiming guide)
- Illumination: Turns the illumination LED on or off during scanning

Notification

Control scan-related feedback options such as beep volume and LED indicators

- Read fail: Enables or disables notifications when a scan fails
- Beep: Adjusts beep settings for scan results
- LED: Enables or disables the tablet's LED indicator for scan results
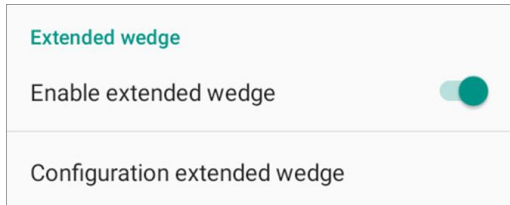
Wedge

Set below items in Wedge settings

- Prefix: Defines characters to add before the scanned data.
- Suffix: Defines characters to add after the scanned data.
- Extended wedge

Scanner

Extended wedge

TR54 supports Extended wedge that allows to edit the decoded data. Tap **Enable extended wedge** toggle switch and then set a rule in **Configuration extended wedge**.

Figure 43 ScanSettings - Extended wedge

For example, make a rule that add a string "*POINT MOBILE*" at the start of decoded data whenever decoding CODE128.

1. Tap **Style** (1) and select **Condition** (2).

Figure 44 Extended wedge example_1
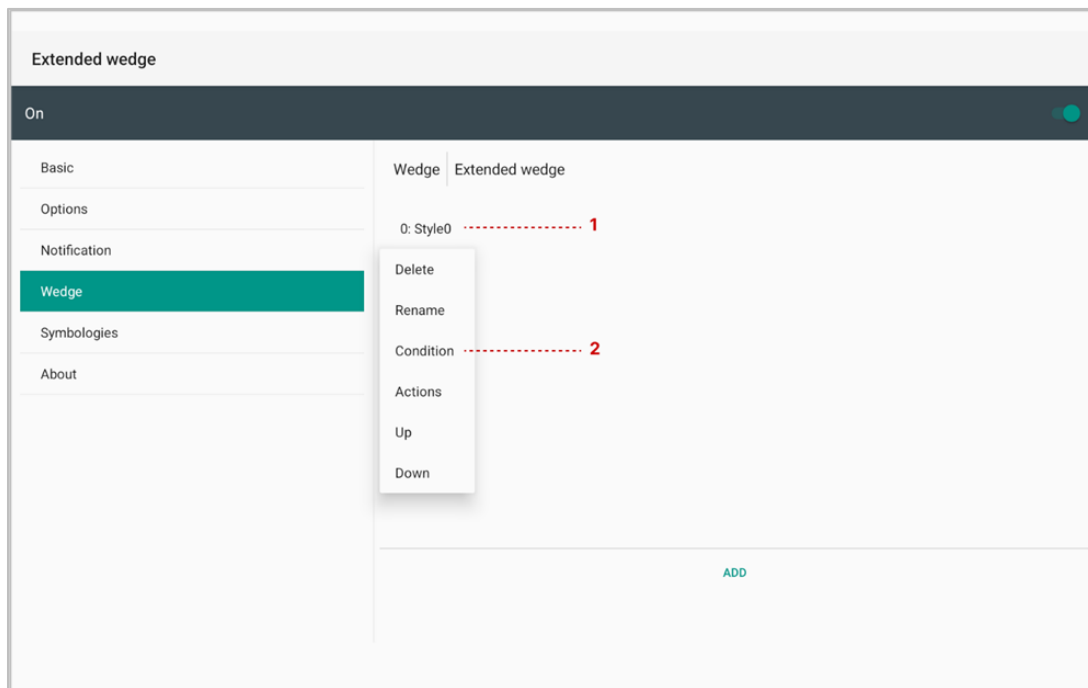
Scanner

2. Tap **Symbologies** and select **CODE128** among the symbologies.

Figure 45 Extended wedge example_2
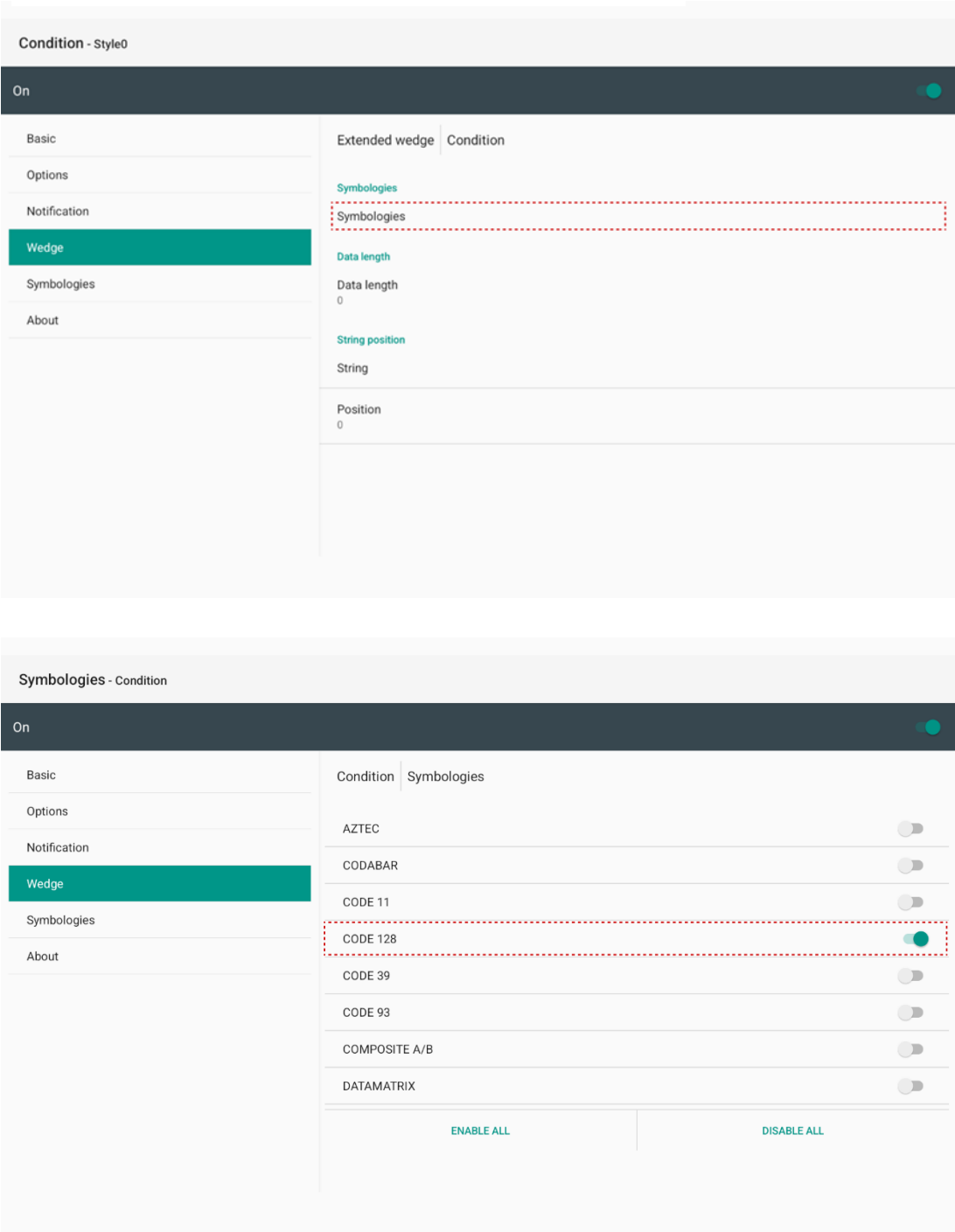
Scanner

3. Tap **Style** (1) and select **Actions** (2).

Figure 46 Extended wedge example_3
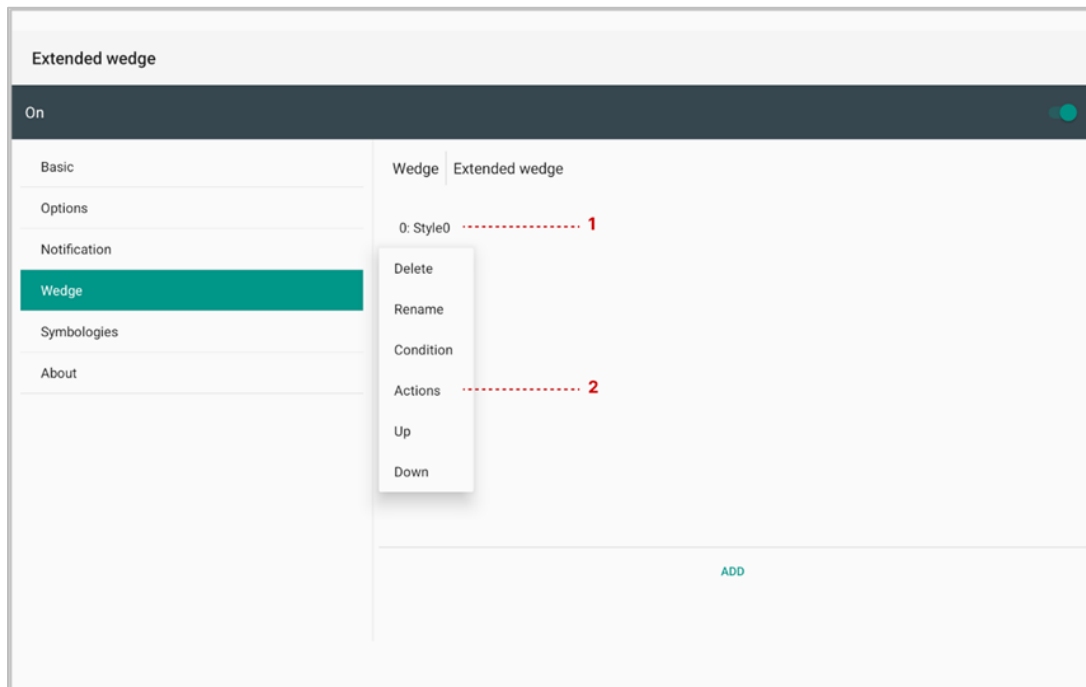
Scanner

4. Tap **ADD** and select **Move to start** to point the start of the decoded data.

Figure 47 Extended wedge example_4
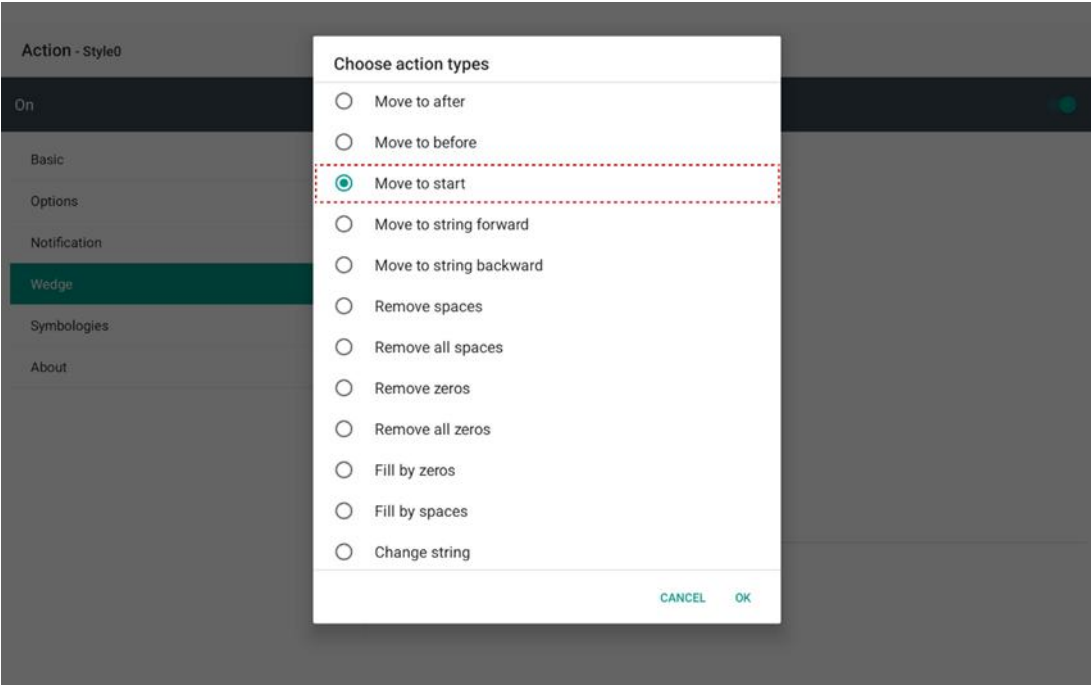
5. Add another action of which action type is Send string. Set value as "*POINT MOBILE*".

Figure 48 Extended wedge example_5
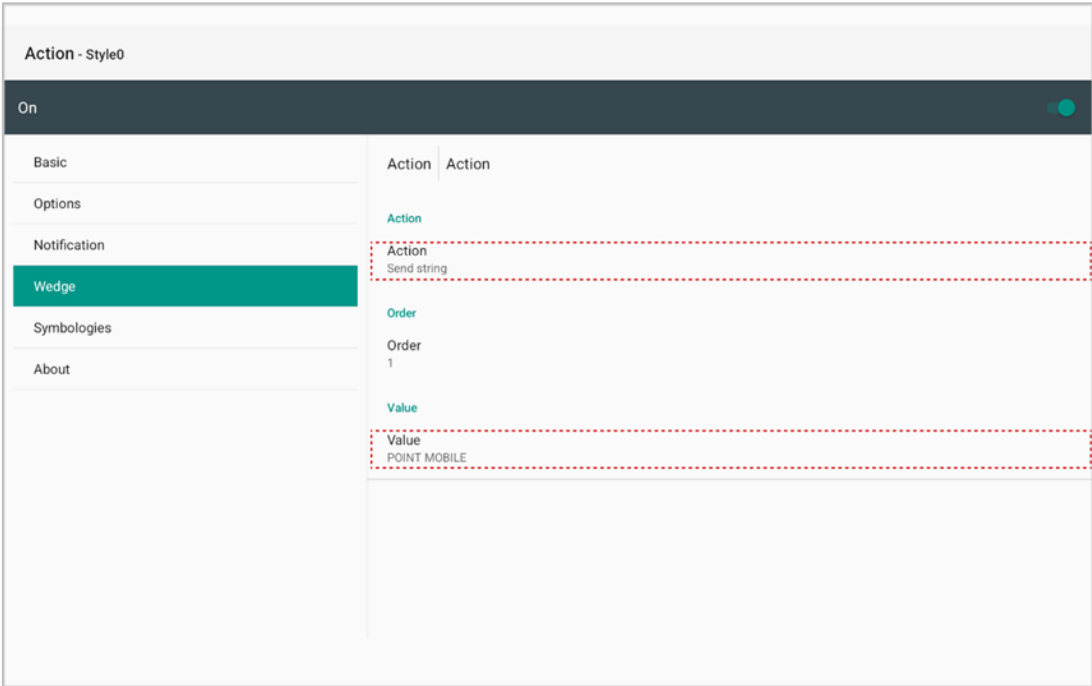
Scanner

6. "*POINT MOBILE*" string will be added to decoded CODE128 data.

Before
After

Scanner

Symbologies

Enable or disable the specific symbology or set detail options. Barcodes using a disabled symbology will not be read. By tapping each symbology name to access detail options.

About

Find the scanner information or restore the scanner settings to default.

- Scanner type
- Scanner revision
- Scanner factory reset

Scanner

Scanner

Scan a Barcode

Point the scanner at the barcode and press the scan button on the device or gun handle. If another button is set as scan trigger using Program Buttons (Refer to Use the Buttons – Program Buttons), it can trigger the scan action, too.

> **ℹ️ Note:**
> *If you set the single scan mode as Press decoding or Release decoding, it may require another button pressing mechanism to trigger scanning. Refer to Single Scan Mode article for more detail.*

N2601 Scanner

Aim the barcode within the green circular aiming point. Maintain an appropriate distance so that the green aimer fully covers the barcode.

Figure 49 Aiming barcode (N2601)

N5703 Scanner

Center the cross-hair laser aimer over the barcode. The barcode must be within the square made by the edge of the aimer. You can tilt the aimer slightly for a comfortable angle to scan.

Figure 50 Aiming barcode (N5703)

Scanner

ScanDemo

Using ScanDemo app, demonstrate scanning feature.

1. Execute **EmKit** 🦎 > **ScanDemo** ▥.

2. Scan a barcode by pressing the scan button on the device or tapping **Start scan** button on the screen.

3. The scan result is displayed on the screen.

Figure 51 ScanDemo
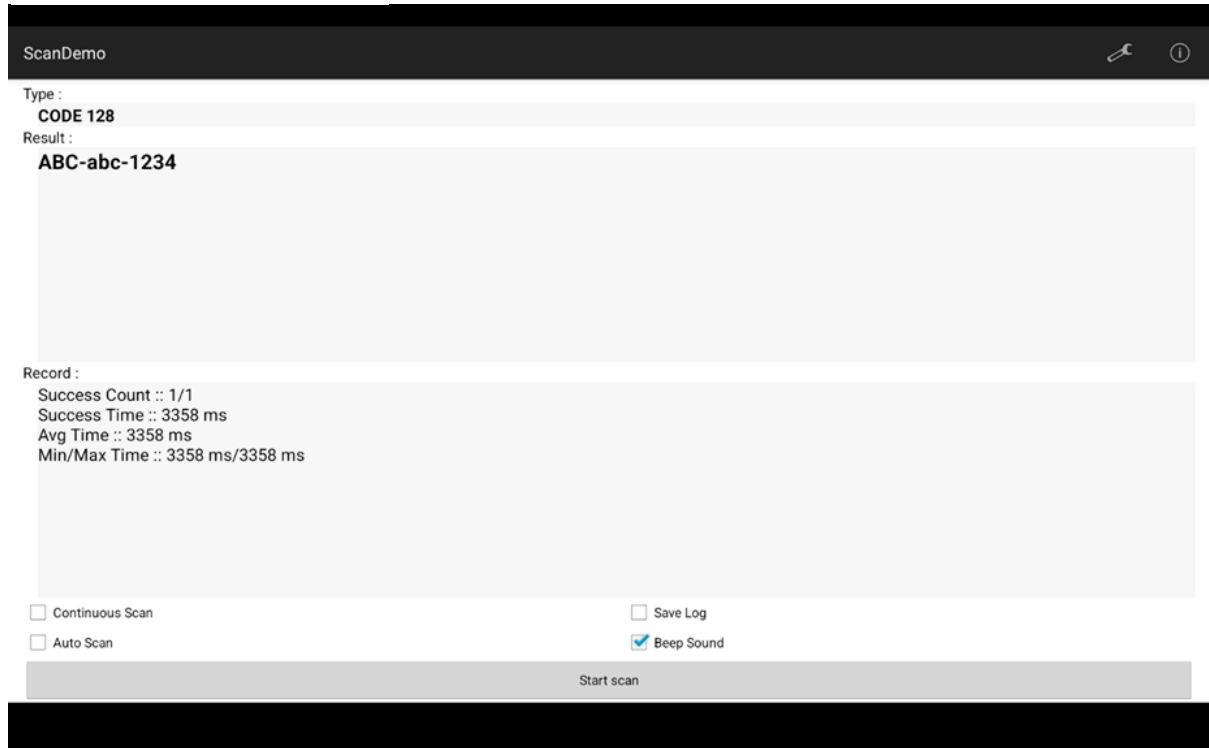
Wireless

Mobile Network

ⓘ   **Note:** *Mobile network is only available on the TR54 SKU supporting WWAN.*

To connect mobile network, SIM card is required. Insert SIM card first referring Install SD & SIM cards

After inserting the SIM card, reboot the device. When network is connected, a network icon will be appeared on the status bar.

Figure 52 Mobile network icon

Find network information and adjust the network settings in **Settings** ⚙ > **Network & internet** > **SIMs**.

Figure 53 Mobile Network Setting

Wireless

Wi-Fi

To turn on and connect a Wi-Fi,

1. Go to **Settings** ⚙ > **Network & internet** > **Internet**.

2. Tap Wi-Fi toggle switch to enable Wi-Fi.

3. Device searches for nearby Wi-Fi signals and lists them in order of signal strength.

4. Select a Wi-Fi SSID to connect.

5. The message **Connected** under the SSID means the device complete to connect to the Wi-Fi.

Figure 54 Wi-Fi connected
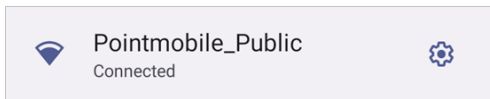
> ℹ **Note:** *There are Open Wi-Fi network and Secured Wi-Fi network. You can tell those apart by lock icon (🔒) in the nearby Wi-Fi list.*
>
> *To connect the secured Wi-Fi network, you need to enter the password.*

Figure 55 Open Wi-Fi Network

Figure 56 Secured Wi-Fi Network

If there is a saved Wi-Fi network, simply turn on the Wi-Fi through the Quick setting panel. The saved network will be connected automatically.

Figure 57 Wi-Fi on Quick setting panel
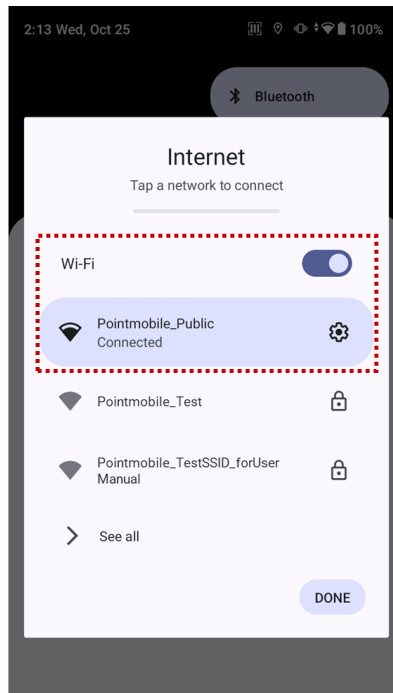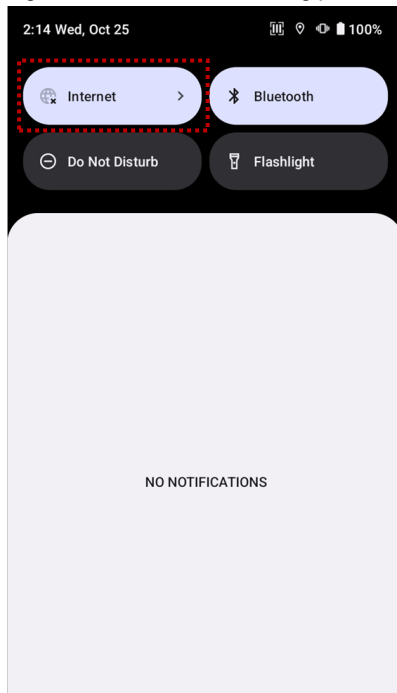
Wireless

Hotspot & Tethering

Share a network connection to other devices using a tethering or hotspot.

Figure 58 Hotspot & tethering
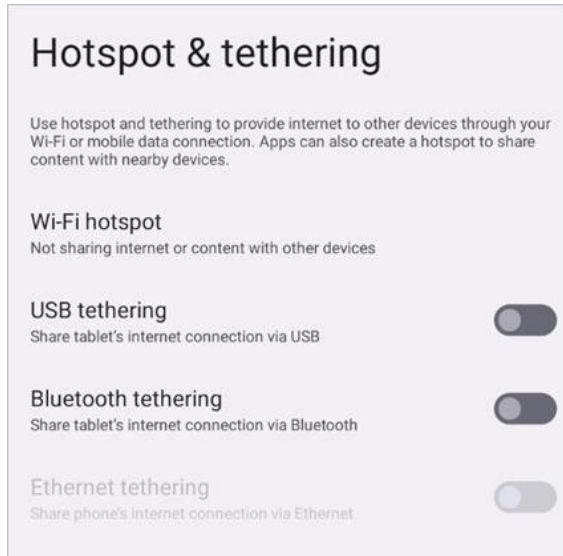
To turn on the hotspot,

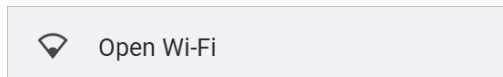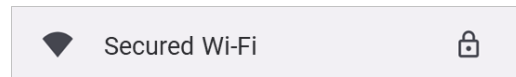1. Go to **Settings** > **Network & internet** > **Hotspot & tethering**.
2. Select **Wi-Fi hotspot.**
3. Turn on the **Use Wi-Fi hotspot** switch.
4. If you want, you can modify the hotspot name, security, and password.

Then, the other device can search and connect the hotspot from Wi-Fi list.

If you want to use tethering, choose one of the following options among the Hotspot & tethering menu.

- Bluetooth tethering: Pair your tablet with the other device, and enable Bluetooth tethering.
- USB tethering: Connect your tablet to the other device with a USB cable, and enable USB tethering.
- Ethernet tethering: Connect your tablet to the ethernet with an ethernet cable, and enable Ethernet tethering.

Wireless

Bluetooth

Turn on / off

Bluetooth is turned off as default. There are two ways to turn on the Bluetooth,

- Open quick setting panel and enable Bluetooth ✳

Figure 59 Bluetooth in Quick setting panel
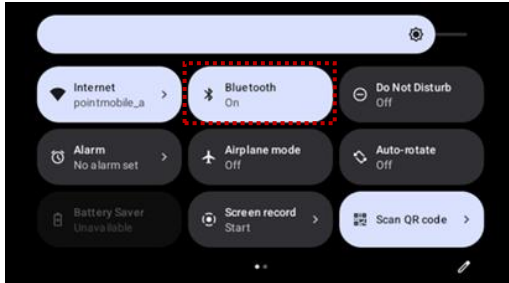
- Go to **Settings** 🔧 > **Connected devices** > **Pair new device**

Pair and Connect

To connect with a new device,

1. Go to **Settings** 🔧 > **Connected devices.**

2. Tap **Pair new device.**

    (Bluetooth will be turned on automatically)

3. Select the device you want to pair among **Available devices** list.

4. Follow instructions on the screen (Pairing code or pairing confirmation dialog) and tap **PAIR.**

5. When the connection is succeeded, the connected device name is listed under the **Other devices** list.

    Figure 60 Bluetooth – Currently Connected Device
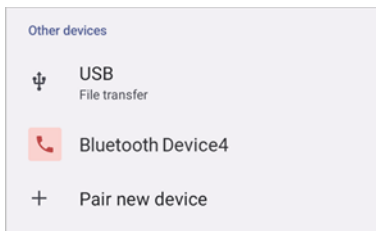
Wireless

6. To connect a device previously connected, select the device name from the **Saved devices** list. If the desired device is not visible, tap **See All** to view the full list of available devices.

Figure 61 Bluetooth – Currently Connected Device
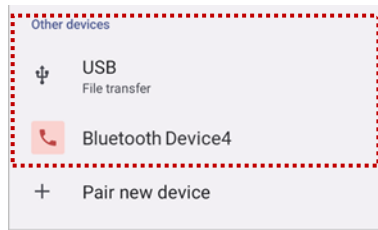
Unpair and Disconnect

To unpair the device, select the name of the device you want to unpair from the **Other devices** list and tap **FORGET** 🗑.

Or tap **DISCONNECT** ✕ to disconnect only and not unpair.

Figure 62 Forget Device
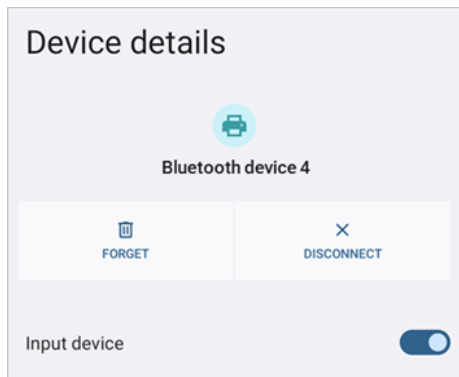
Wireless

Change the Bluetooth device details

Tap the ⚙ icon next to the device name to see device details. If the device you want is not listed under the **Saved devices,** tap **See all**.

Figure 63 Bluetooth– Detailed Device
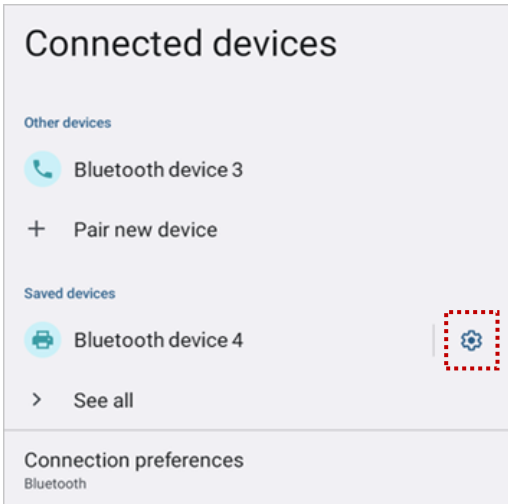
- To change the device's name, tap ✏ on the top of the screen

- Turn other settings on or off (Available on some devices)

Wireless

NFC

The NFC antenna on the TR54 is located on the right front side of the tablet. Bring the NFC tag close to the tablet as shown in Figure 64 for proper detection.

NFC feature is enabled by default.

But if NFC does not work, make sure the NFC is enabled from the **Settings** ⚙ > **Connected devices** > **Connection preferences** > **NFC**.

Figure 64 TR54 NFC tapping area
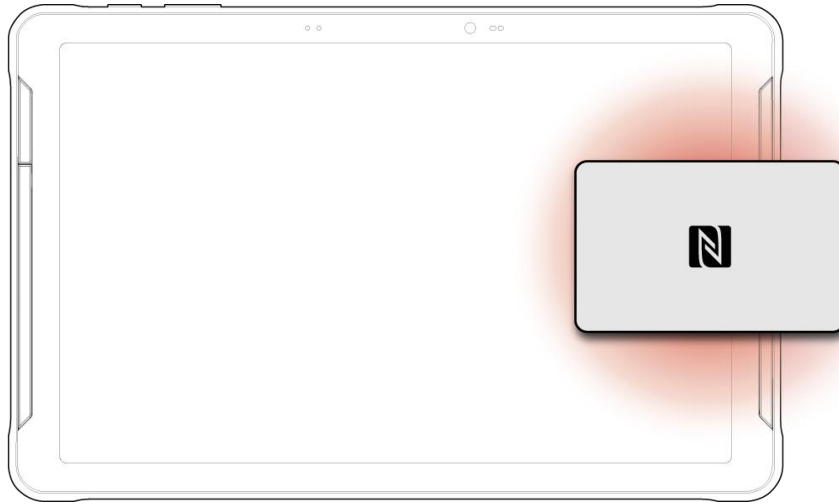
System Maintenance

System Information

You can check the system information on the **Settings app** or **EmKit**.

Go to **Settings** ⚙ > **About tablet**. Following information can be found.

- Device name
- Phone number
- Legal information & Certificates
- Model & SIM Status
- Hostname
- IMEI
- Android version
- IP address
- Wi-Fi MAC address
- Bluetooth address
- Uptime
- Build number

On EmKit

Go to **EmKit** 🎁 > **System Information** 📱 . Following information can be found.

- Processor information
- Version information   (Android version, OS image version, SDK version, etc.)
- Manufacturer information   (Serial number, Part number, etc.)
- Device information   (Scanner, Audio, Display, etc.)
- Battery information   (Battery charging status, etc.)
- App version information   (Version of EmKit apps)

System Maintenance

Check Device Health

EmHealthReport is a solution that provides the device's battery and eMMC health.

Monitor the battery and eMMC status to foresight their lifetime or find the cause when there is a battery problem such as cannot charge the device or rapid battery discharge.

To use, open **EmKit** 🎲 and launch **EmHealthReport** 📋 . You can see the simple device health information on the main screen. To find detailed information, tap each blue arrow on the right side of the screen.

Figure 65 EmHealthReport
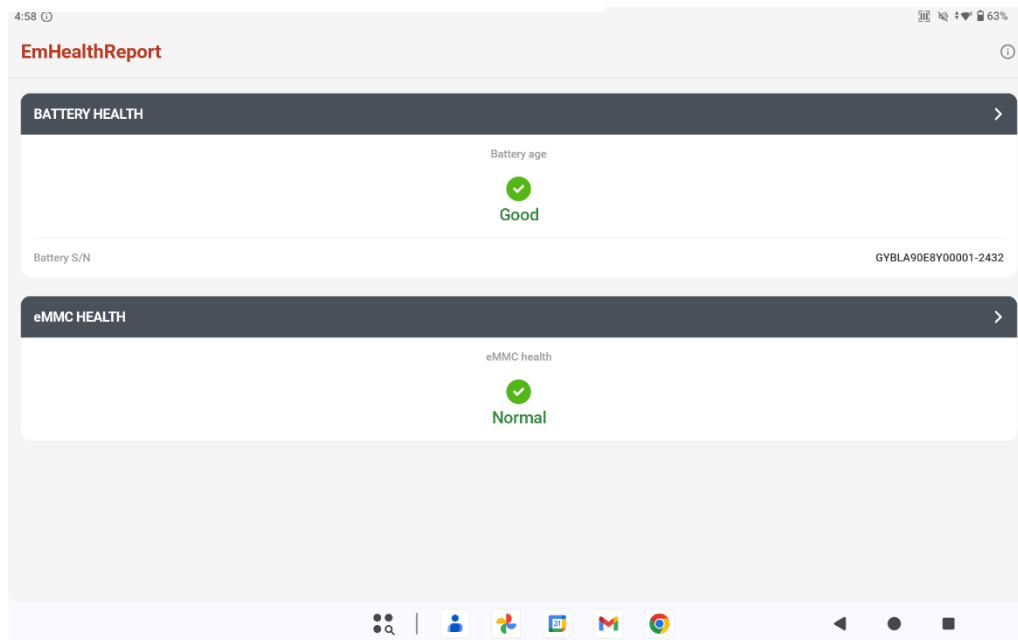
- **Battery Health**

    - Battery Serial Number

    - Battery Age

    - Battery Level

    - Battery First Use Date

    - Battery Voltage

    - Battery Temperature

    - System Temperature

    - Battery Manufacture Date

    - Smart Charging Mode

        (Refer to Smart Charging)

- **eMMC Health**

    - Pre-EOL Information

    - Device life time estimation type A

    - Device life time estimation type B

System Maintenance

OS Update

Periodic update improves the performance of the device. POINT MOBILE provides up-to-date OS version via Service Portal and FOTA. Update the device via storage, OTG port, and FOTA server. Depending on the workspace environment, choose more suitable method.

📢 *Notice: Please backup your data before starting the update process.*

OS update via storage

To update the OS using storage,

1. Download an OS image file into the root folder of microSD card or device internal storage.
2. (In case of using SD card) Insert SD card to the device and then turn the device on.
3. Go to **Settings** ⚙ > **System** > **System Update**.
4. Check if the OS image file shows up under **AVAILABLE VERSIONS**.

Figure 66 OS update via storage

5. Tap **UPDATE** to start the update process

ℹ *Note: If the OS image file doesn't show up in **AVAILABLE VERSIONS**, check the file is placed in the root folder of storage. System only can recognize the file in the root folder.*

OS update via OTG port

TR54 supports the USB OTG feature.

1. Prepare a formatted USB flash drive for OS update.
2. Copy an OS image file to the root folder of the flash drive.
3. Connect the flash driver to the TR54.
4. Go to **Settings** ⚙ > **System** > **System Update**.
5. Check if the OS image file shows up under **AVAILABLE VERSIONS**.
6. Tap **UPDATE** to start the update process.

System Maintenance

OS update via FOTA

If TR54 can connect to a network, use the FOTA server for the update.

1. Connect the device with a network.

2. Go to **Settings** ⚙ > **System** > **System Update**.

3. Tap **FOTA** tab or Swipe left to move to **FOTA** tab.

4. If there is an OS version newer than device's one, the server shows the new OS information.

Figure 67 OS update via FOTA
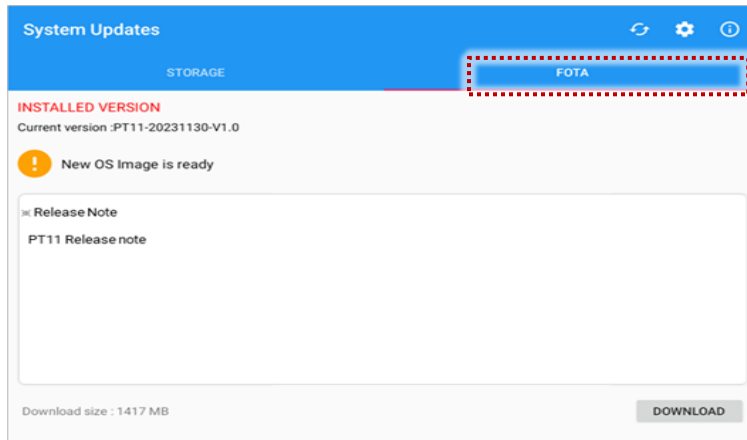
5. Tap **Download**.

6. Tap **OK** on the **OS Update** dialog to start to download the OS image file.

7. To complete the update, rebooting is required.

   Tap **OK** on the **Restart required** dialog to restart the device.

ℹ️ *Note: Basically, OS update via FOTA works over Wi-Fi or Ethernet only.*
To enable the OS update over Mobile Network too, uncheck the setting value in FOTA Settings.
Downloading over the Mobile network may result in additional charges.

Figure 68 FOTA Setting

System Maintenance

Factory Data Reset

When TR54 works abnormal or there is a need to reset the device, follow the steps below to perform a factory data reset.

⚠️ ***Caution***: *Factory data reset will erase all personalized settings and data saved in the device, such as Google account, apps, user data, etc. And factory data reset cannot undo.*

Factory data reset via Settings app

If the device can be turned on and access **Settings**,

1. Navigate to **Settings** ⚙️ > **System** > **Reset options**.

2. Tap **Erase all data (factory reset)**.

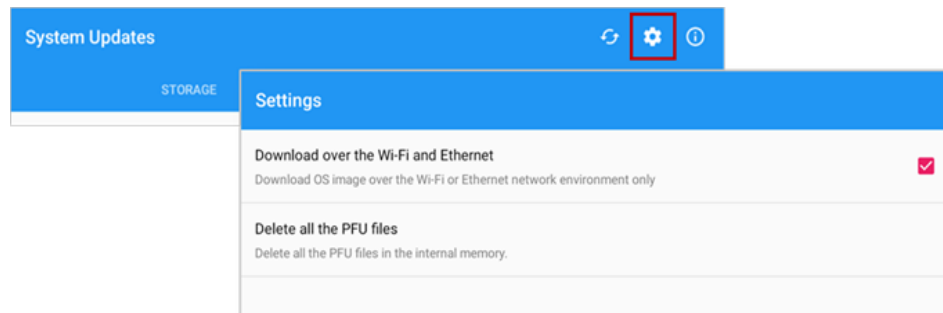3. After being aware that factory reset will erase all data from the internal storage, tap **Erase all data**.

   If you select the **Clear Enterprise storage** option, enterprise storage will also be erased.

   If you select the **Erase eSIM** option, all eSIM profiles stored on the device will be deleted as well.

   Figure 699 Factory data reset

   🗑️

   Erase all data (factory reset)

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

   • Your Google Account
   • System and app data and settings
   • Downloaded apps
   • Music
   • Photos
   • Other user data
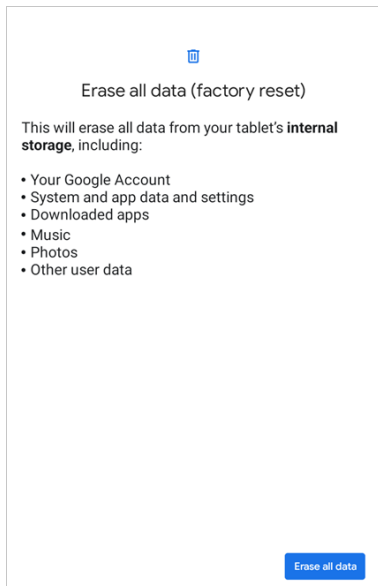
   Erase all data

4. Tap **Erase all data** again to start the factory reset process.

Safety Information

Battery Safety Information

Follow the battery safety guidelines for safe usage, storage, and disposal of Li-ion batteries. Improper battery use may result in a fire, explosion, or other critical hazards.

Battery Safety Guidelines

- Use only POINT MOBILE approved batteries and charging accessories. Other batteries and chargers may damage the device or result in a fire, leakage, or other hazards.
- Do not expose the battery to excessive heat or cold.
- Do not use or store the battery in or near areas that might get very hot, such as in a parked vehicle, near a heat duct or close to other heat sources.
- Do not allow objects that may cause a short circuit, such as metal objects, corrosive substances, or liquids like water, to contact the battery.
- Do not disassemble, crush, bend, shred, press, or other actions that may damage or deform the battery.
- Do not use or replace the battery on the go or from a high location. Dropping may result in an explosion or fire.
- Do not put any labels, stickers, tags, etc. on the device or battery. Performance of the device or battery, such as sealing, drop, or tumble, could be affected.
- Close supervision is necessary when used near children to avoid the risk of injury.
- If battery leakage is observed, avoid any contact with the skin or eyes and properly dispose of the battery. If contact has been made, wash the affected area with water for 15 minutes and seek medical advice.
- If you notice any type of damage to the battery, such as swelling, dents, and leaks, stop using it immediately and contact POINT MOBILE.

Battery Charging Guidelines

- Charge the battery in a clean, cool, dry, and ventilated environment.
- Separate the charger from the battery as soon as possible when the battery is fully charged.
- Battery performance can degrade due to the stress of daily charging and discharging. Batteries typically need to be replaced after 300 to 500 charging cycles (full charge-discharge cycles) or when the battery capacity has been reduced to 70 ~ 80% of its original capacity. The actual number of charging cycles varies based on usage patterns, temperature, age, and other factors.

Safety Information

Battery Storage / Disposal Guidelines

- Store the batteries in a clean, dry and ventilated environment within ambient temperature ranges of 20±5℃.
- For safety regulations, batteries are charged to below 20~30% of full capacity during production.
- When not using batteries for a long period, charge the battery for 30 minutes to 1 hour at least once every 6 months to prevent full discharge and keep the performance.
- Batteries should be stored separately when storing for long periods. Disconnect from any device, charger, or cradle.
- Dispose of used batteries promptly according to local disposal regulations.
- Do not dispose of the battery in fire. It may cause explosion.

⚠ *Caution:* *The battery is consumable. POINT MOBILE provides a warranty for the battery for 12 months after purchase. If you suspect the battery swelling, change the battery immediately and contact POINT MOBILE.*

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