



Point Mobile PM84

O Point Mobile PM84 destaca-se como uma escolha prática para empresas, portátil, fácil de manusear e equipado com Android é compatível com diversos sistemas além de ter um hardware seguro e estável.



For Android™ 13

Enterprise Mobility

PM84

User Manual

Instruction

This manual provides information about basic features and using the PM84. 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
v1.0	13 Nov 2023	Initial release
v2.0	04 Jan 2024	Added specification & certification chapter
v3.0	08 Jan 2024	Updated battery specification
v4.0	08 Feb 2024	Added Smart Charging chapter Updated Check Device Health description
v5.0	12 Mar 2024	Updated Accessories chapter
v6.0	21 Mar 2024	Updated Smart Charging description Changed back cover (Updated company address)
v7.0	15 Jan 2025	Added Rugged boot, 4SC (Charging cradle) description and Updated Hand strap description in the Accessories chapter Updated the app icons of the EmKit apps
v7.1	07 Jul 2025	Updated the Product Standard Accessories chapter

Introduction

PM84 SKUs

The contents of this manual can cover the following SKUs.

SKU	Part Number	Battery	Scanner	Network	RAM /Flash	Common
SKU1	PM84G3003DNE0C	Standard	-	WiFi/BT	4G/64G	NFC Front/Rear Camera Android GMS 13
SKU2	PM84G3004DNE0C	Extended				
SKU3	PM84G3103DNE0C	Standard	N5703			
SKU4	PM84G3104DNE0C	Extended				
SKU5	PM84G6003DNE0C	Standard	-	LTE, GPS, WiFi/BT		
SKU6	PM84G6004DNE0C	Extended				
SKU7	PM84G6103DNE0C	Standard	N5703			
SKU8	PM84G6104DNE0C	Extended				

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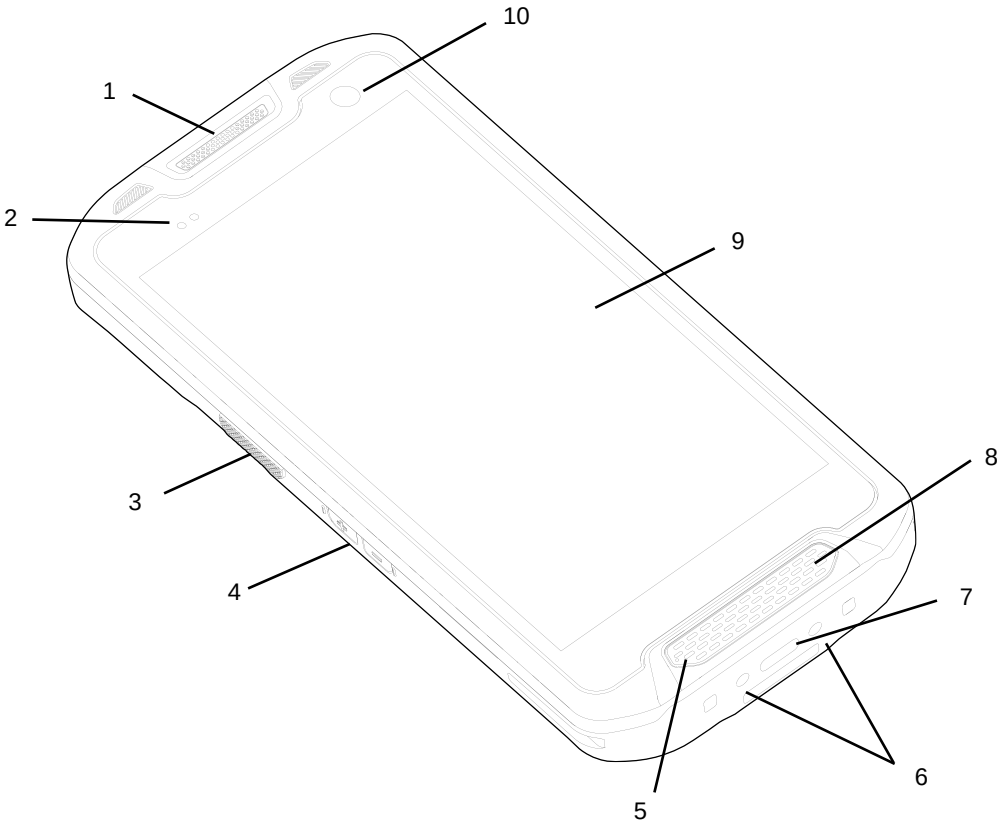
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Getting Started

Device Parts

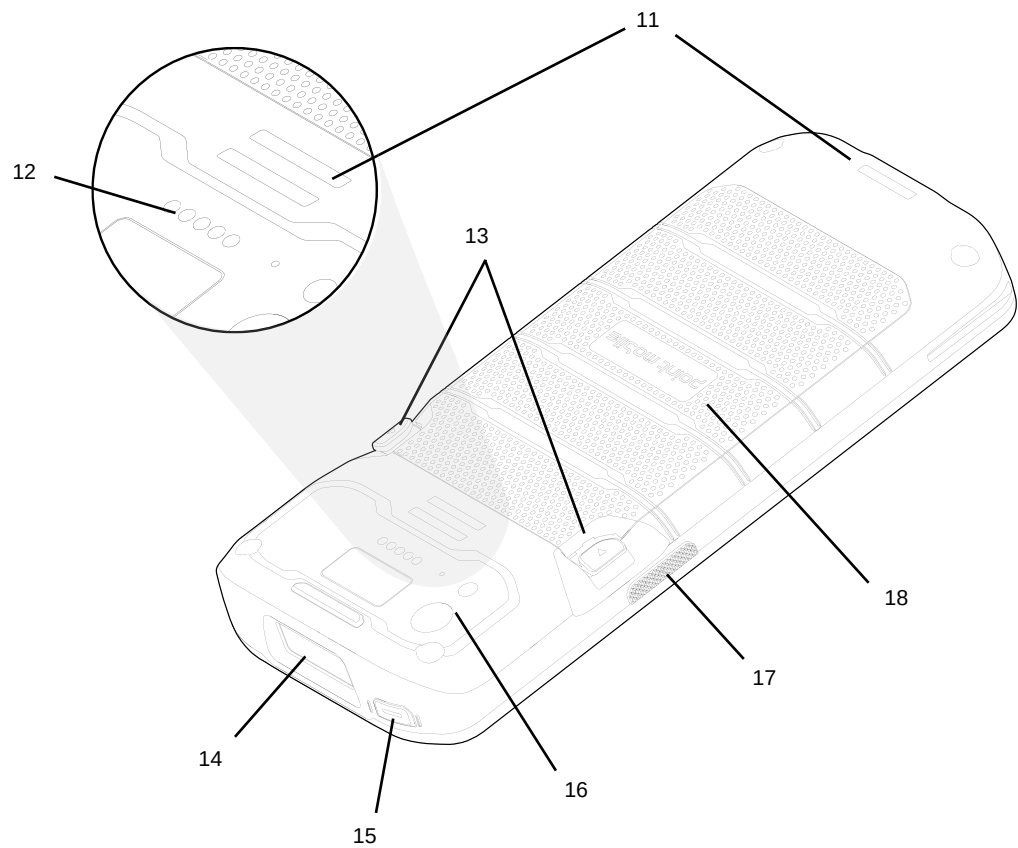
Figure 1 PM84 front + left view



No	Name	Description
1	Receiver	Use with making a phone call
2	LED indicator	Indicate the power status and notification. Find more details in LED indicator
3	Scan button (Left)	Scan a barcode by pressing (Programmable button)
4	Volume buttons	Control the volume (Programmable button)
5	Microphone	Use for collecting sound
6	I/O connector for cradle	Connector for charging and communication with cradle
7	USB connector	USB Type C connector for charging and data communication
8	Speaker	Ring system sound
9	Touch screen	Displays all operating screen
10	Front camera	Take a picture

Getting Started

Figure 2 PM84 rear + right view



No	Name	Description
11	Hand strap hole (top / bottom)	Mount hand strap
12	Rear I/O connector	Connector for sled type accessories (RF88 or gun handle)
13	Battery release buttons	Press the buttons in to release the battery
14	Scanner	Scan a barcode
15	Power button	Turn on/off the device
16	Rear camera & Flashlight	Take a picture & Use flashlight in camera or torch mode
17	Scan button (Right)	Scan a barcode by pressing (Programmable button)
18	Battery	Provide power (battery and battery cover are combined)

Getting Started

Product Standard Accessories

The following items are in the product box.

Accessory	Name
	Battery pack
	Charger
	AC plug
	LCD protection film
	Hand strap



Note: The images may differ from the actual accessory.

Getting Started

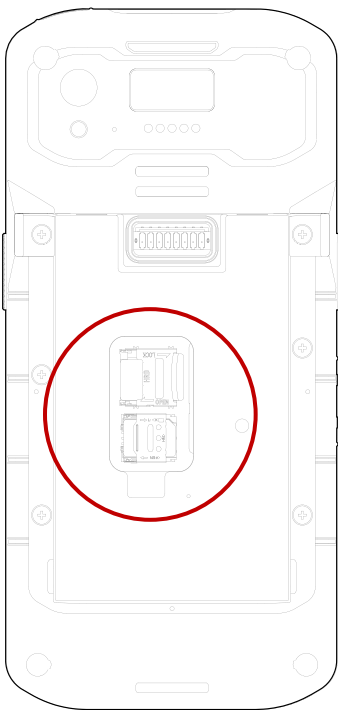
Install SD & SIM Cards

PM84 supports

- microSD card
- Nano SIM card – LTE SKU only

You can find the card slots when removing the battery. Depending on SKU, the equipped card slots are different. Refer to the following table.

Figure 3 PM84 Card Slots



Wi-Fi SKU (SKU1 ~ 4)	LTE SKU (SKU5 ~ 8)
microSD PULL	microSD SIM PULL

Getting Started

Card slot cover

You must open the card slot cover to install or remove the cards. The slot cover protects the device from water, dust, etc.

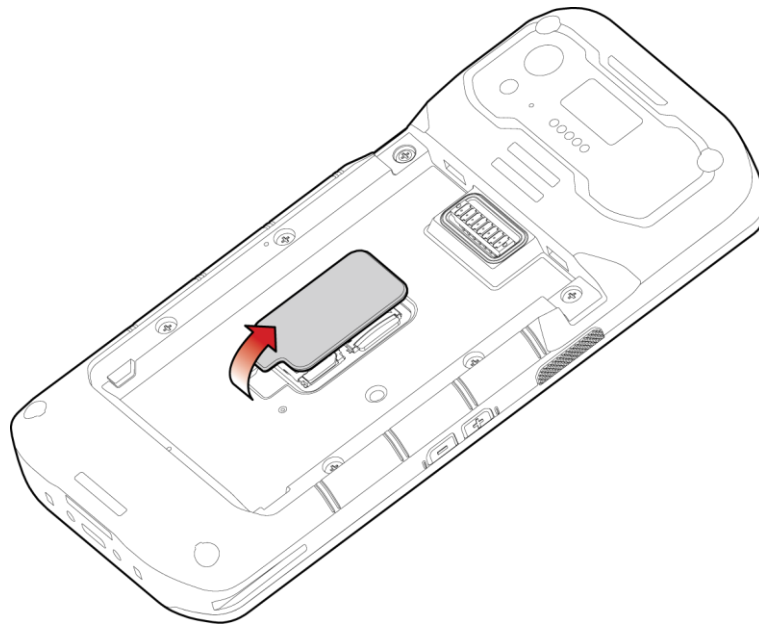
To open the cover, pull it out using the handle on the bottom side.

After installing or removing cards, place the cover on the card slot(s) and push the edge to close firmly.



Caution: Do not throw away the cover. It affects device sealing performance against water, dust, etc.

Figure 4 Card slot cover

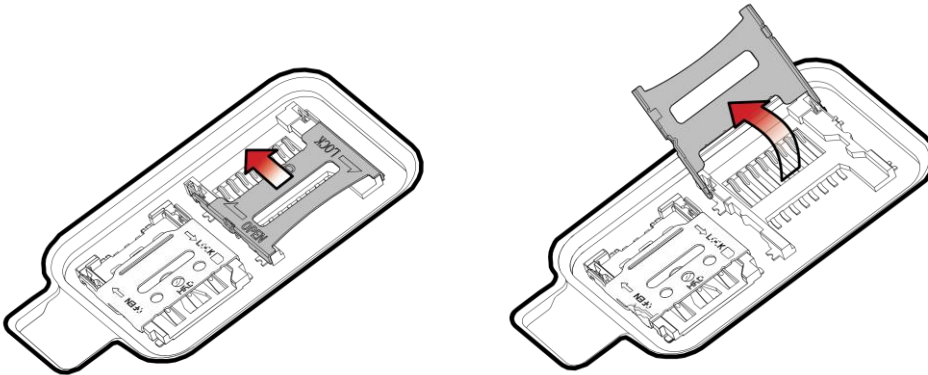


Getting Started

Install SD card

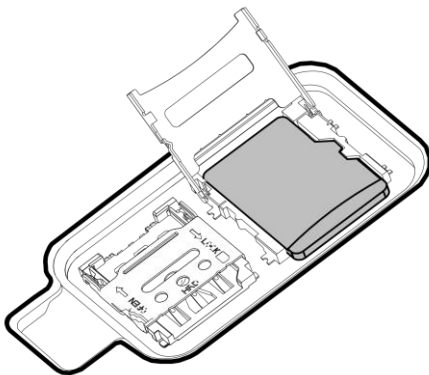
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **left**, and swing upwards to open the holder.

Figure 5 Open SD cardholder



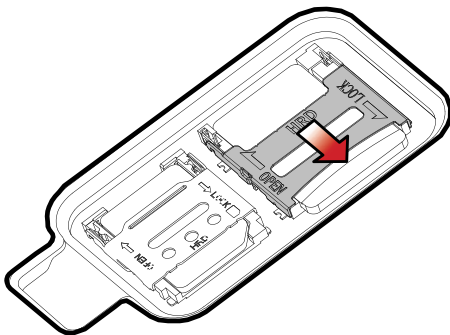
3. Put the SD card you prepared with the contacts facing down.

Figure 6 Place SD card



4. Close the holder down and gently slide it right to lock the holder.

Figure 7 Close SD cardholder



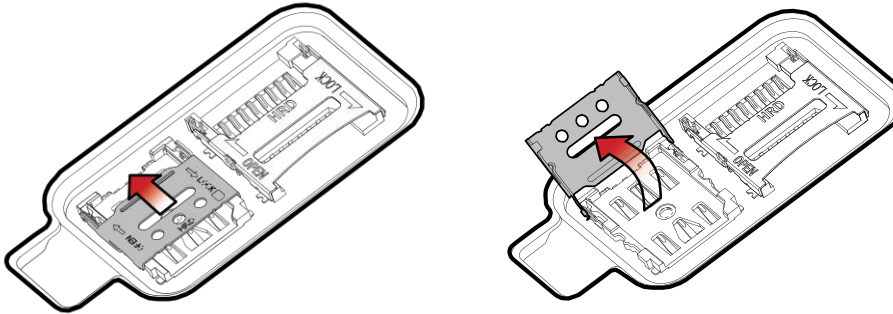
5. Close the card slot cover firmly.

Getting Started

Install SIM card

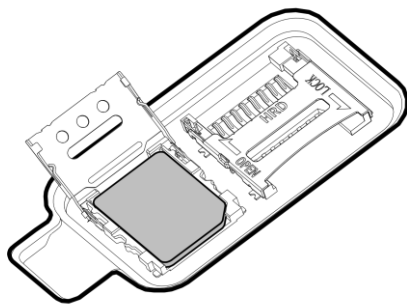
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **left**, and swing upwards to open the holder.

Figure 8 Open SIM cardholder



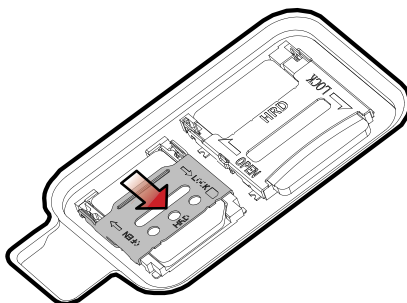
3. Put a nano SIM card you prepared with the contacts facing down.

Figure 9 Place SIM card



4. Close the holder down and gently slide it right to lock the holder.

Figure 10 Closed SIM cardholder



5. Close the card slot cover firmly.

Getting Started

Install & Remove Battery

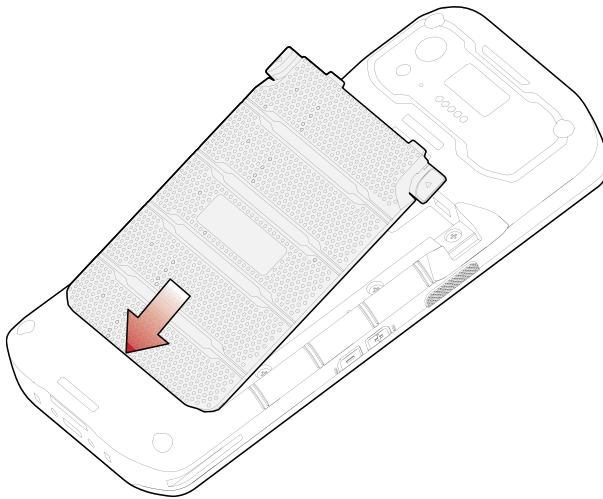
Install the battery



Warning: Make sure the cardholders are completely closed before installing the battery. It may damage the device if you force to install the battery while the cardholders are not closed.

1. Insert the battery from the bottom side.

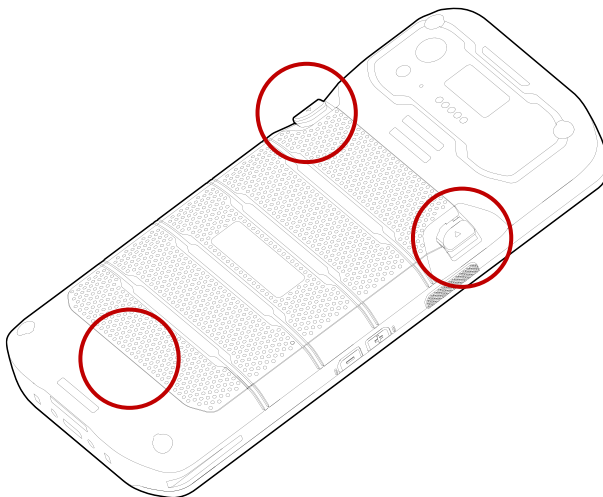
Figure 11 Installing battery – 1



2. Push the battery down until it clicks.

Confirm that the battery release buttons are completely outward and the bottom side is fully engaged.

Figure 12 Installing battery – 2

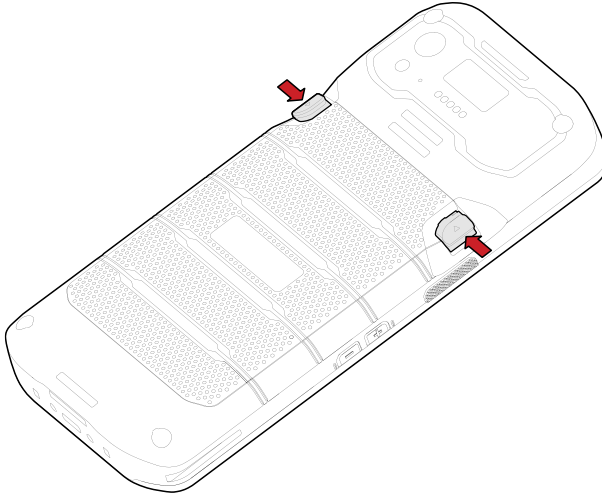


Getting Started

Remove the battery

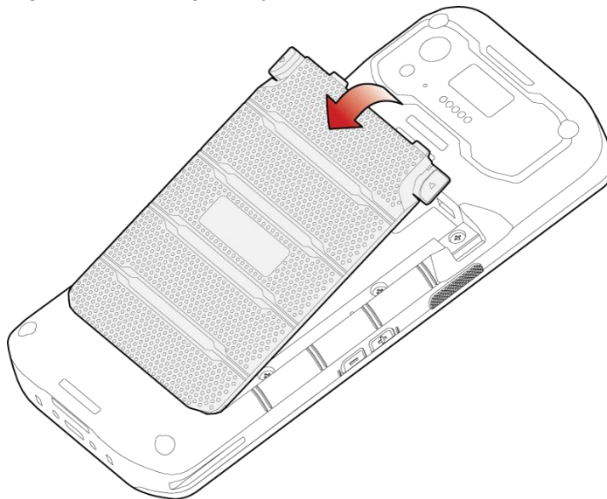
1. Hold the battery release buttons and press in.

Figure 13 Removing battery – 1



2. While pressing the battery release buttons in, pull the battery up.

Figure 14 Removing battery – 2



Getting Started

Battery hot swap

Battery hot swap is a feature that allows users to replace the battery without powering off.

PM84 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 PM84, charge the device enough to use. PM84 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 PM84. Also, make sure the charger and cables are not wet.

Follow the [Battery Safety Information](#) for safety of using the battery.

Battery specification

- Capacity:
 - Standard battery: 4,950mAh
 - Extended battery: 7,020mAh
- Rechargeable & Removable battery

Charging temperature

Charge devices and batteries in temperatures from 0 °C to 45 °C. At out-of-normal range temperatures, the PM84 may stop charging for safety, and the power LED blinks red.

Getting Started

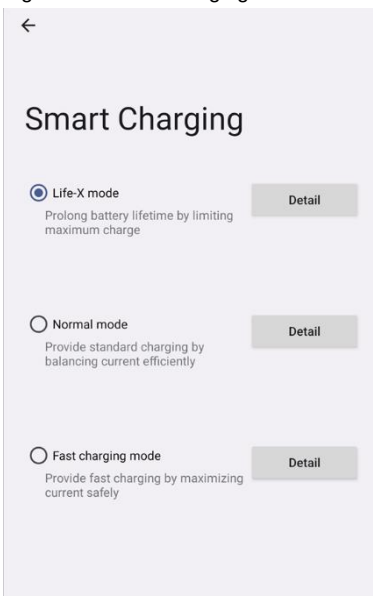
Smart Charging

PM84 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** or **EmKit > EmSettings**, and select **Smart Charging**.

Figure 15 Smart Charging

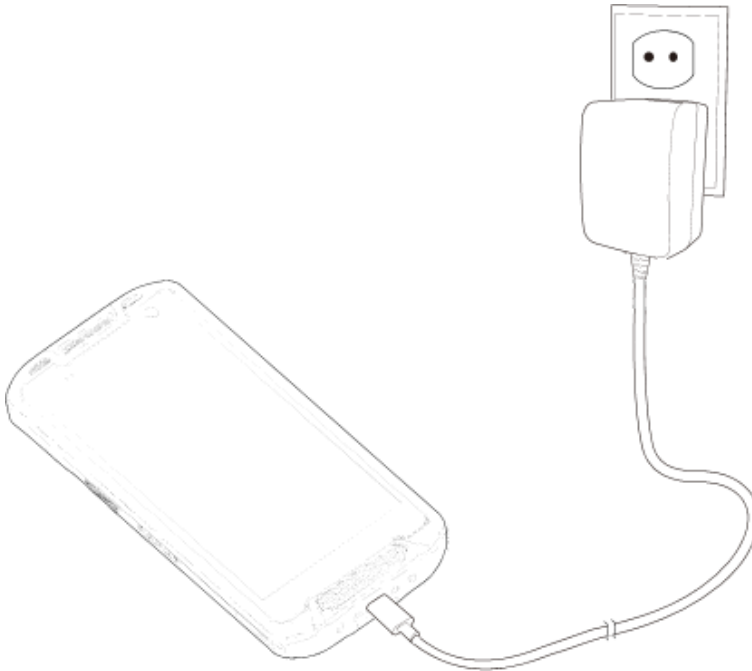


Getting Started

Charge with power adapter

1. Assemble the country plug, power adapter.
2. Connect the cable to the USB connector on the bottom side of PM84.
3. Provide power by plugging the power adapter to the wall socket.

Figure 16 PM84 charging with power adapter



Charging Cradle

There are 3 types of charging cradle for PM84. Single slot (ethernet) cradle (SSC / SEC), 4 slot cradle (4SC), and 4 slot battery cradle (4SBC). The cradles are sold separately. Find more detail about cradles from [Accessories](#) chapter.



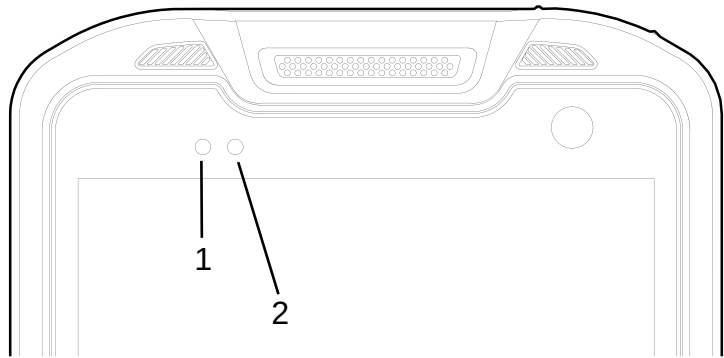
Note: All cradles are compatible with PM95.

Getting Started

LED Indicator

PM84 has 2 LED indicators above the screen.

Figure 17 PM84 LED indicators



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

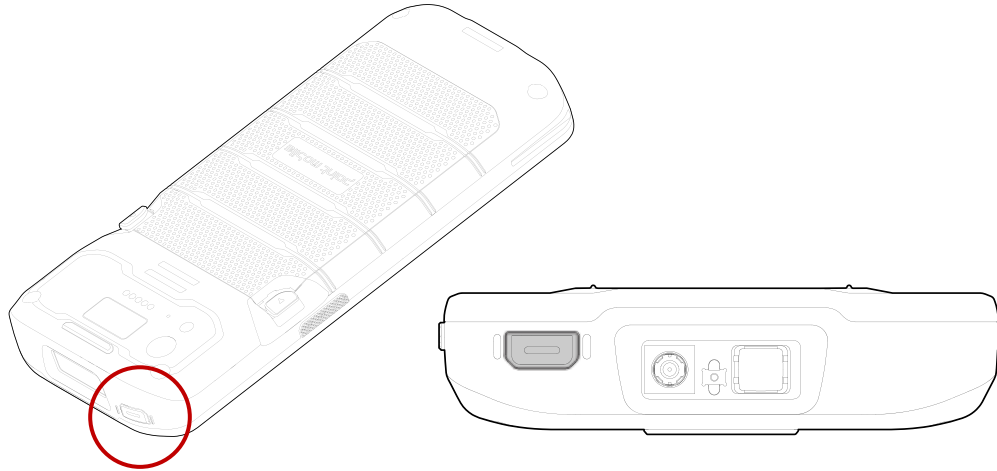
Getting Started

Turn On / Off the Device

To turn on the device,

- Press and hold the power button on the top of the device until **SMART BEYOND RUGGED** logo displays on the screen.

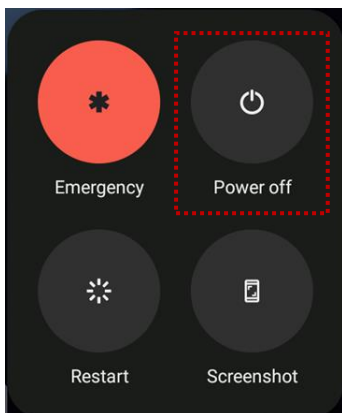
Figure 18 PM84 power button



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**.

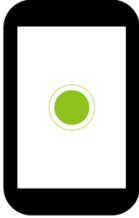
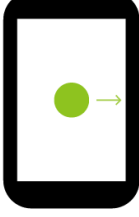
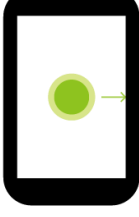
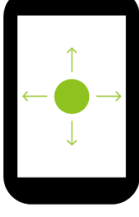
Figure 19 Power menu - Power off



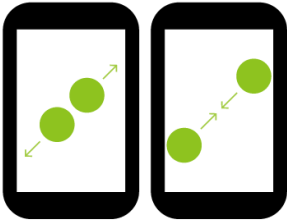
Getting Started

Use a Touch Screen

Controlling the touch screen

Gesture	Description
	Tap One-finger press
	Double tap One-finger press, lift, one-finger press, lift for zoom in action
	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
	Scroll Vertical or horizontal swipe in a single direction

Getting Started

	Pinch Open & Close Two-finger press, move outwards and inwards, lift for zoom in / out action
	Rotate When PM86 is turning sideways, screen orientation is changing

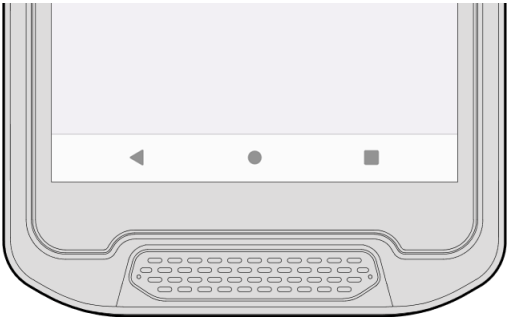
Getting Started

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 20 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.

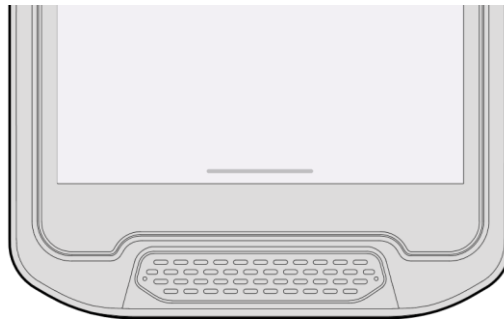
To hide the navigation bar, navigate to **Setting**  **> System > Gesture > System navigation** and change the setting to **Gesture navigation**. Then, the navigation bar will be hidden.



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

Find the gestures and matched function in the table below.

Figure 21 Gesture navigation



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.

Learning the Basics

Setup Wizard

When PM84 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 22 Setup Wizard (main)

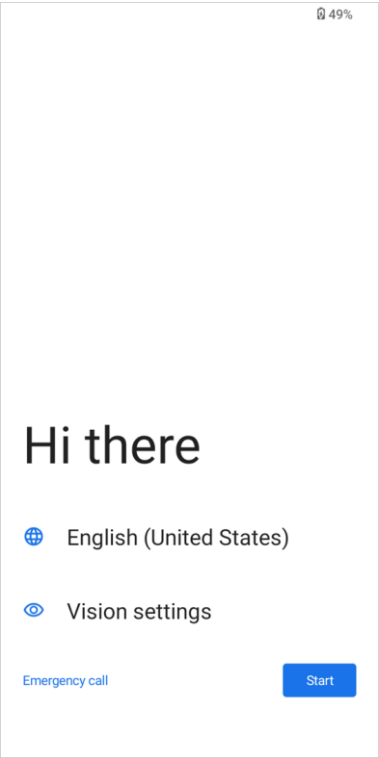
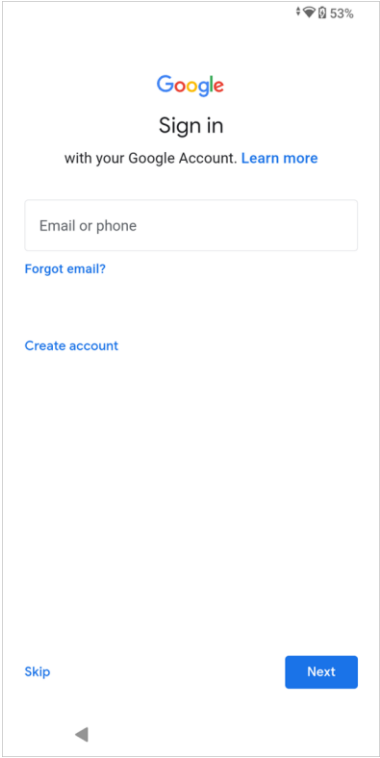


Figure 23 Setup Wizard (Google account)



Learning the Basics

Home Screen

Home screen is a screen displayed after Setup Wizard or pressing the Home button.

Figure 24 Home screen



No	Item	Description
1	Status bar	Indicates device status and notification.
2	Google search	Search an item with Google
3	App	Tap to run the application Long-press to see the application's options
4	Favorites tray	Place the frequently used apps
5	App folder	Apps are organized in the folder. Tap to open the App folder

Learning the Basics

Status bar

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

Status icons

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

Learning the Basics

Notification icons

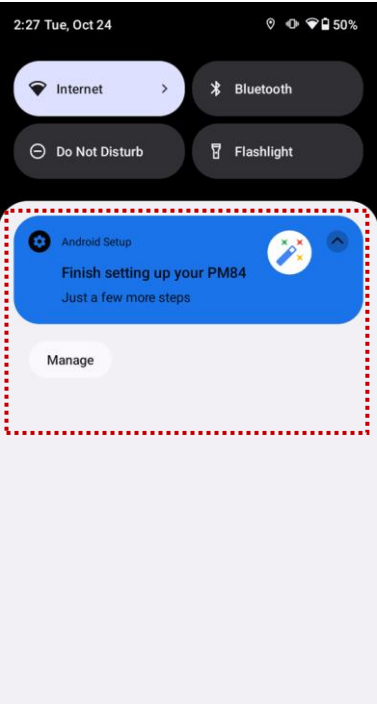
Icon	Description	Icon	Description
	Missed call		New SMS or MMS message
	New Email		Connected to VPN network
	Upcoming event		Other input method available
	File uploaded		File downloaded
	File copied		OTG device connected
	There are more notifications		

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 25 Notification panel



Learning the Basics

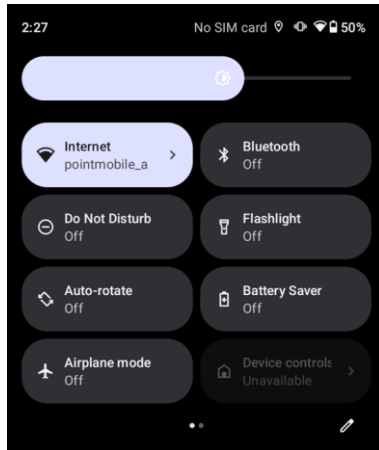
Quick setting panel

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 26 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.

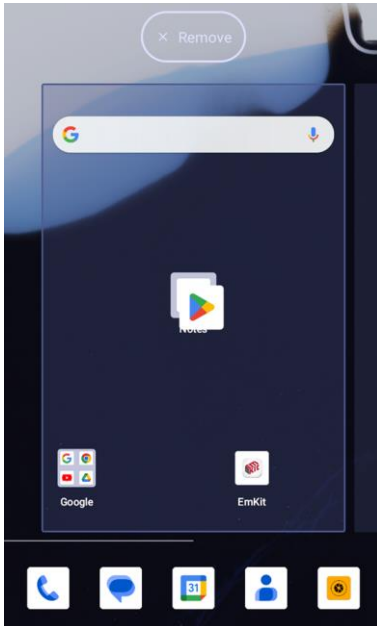
Learning the Basics

Apps & Widget

App folder

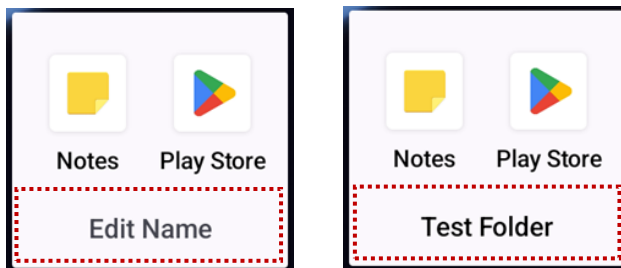
To create the app folder, long-press an app icon and drag it to another app icon.

Figure 27 Create app folder



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

Figure 28 Change app folder name



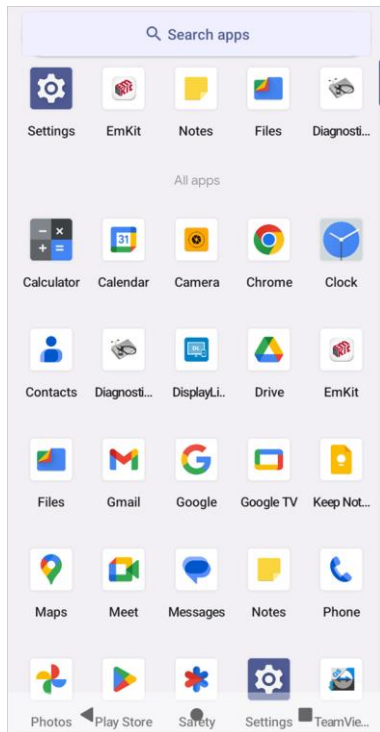
Learning the Basics

App drawer

All installed apps are listed alphabetically in App drawer.

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

Figure 29 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 30 Add an app to Favorites tray



Learning the Basics

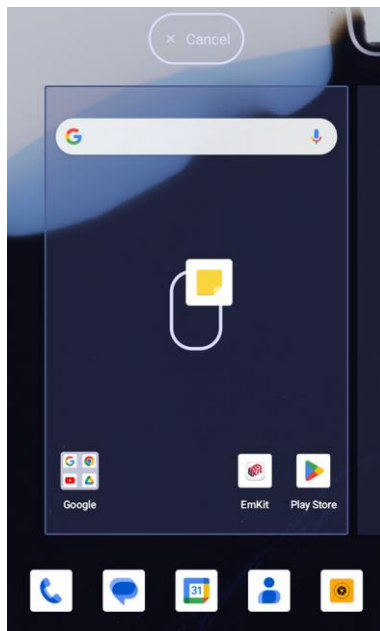
Organize app in Home screen

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 31 Place app in Home screen

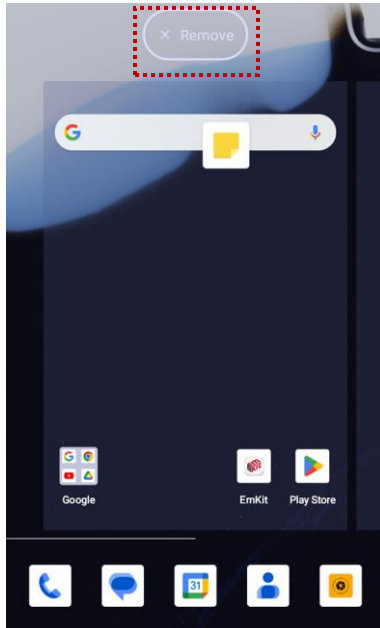


Learning the Basics

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 32 Remove from Home screen



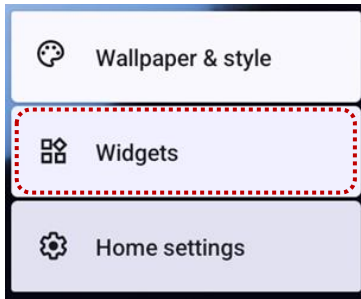
Learning the Basics

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 33 Widget menus



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

Call



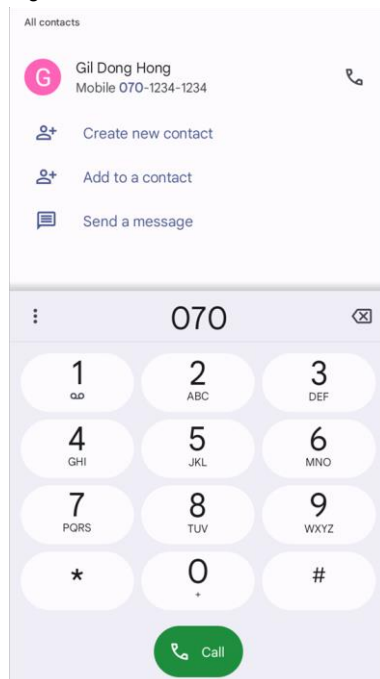
Note: Calling is only available on LTE SKU (SKU5 ~ 8). And it requires a SIM card.

To make or receive a phone call, SIM card is required. Insert SIM card first regarding [Install SD & SIM cards](#).

Making a call

1. Tap **Phone**  from Home screen or App drawer.
2. Tap  to open a dialer.
3. Input a phone number.

Figure 34 Dialer

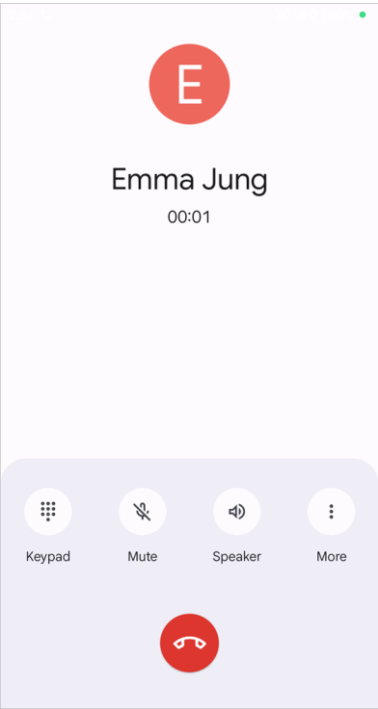


4. Tap  or  next to a searched number to make a call.

Learning the Basics

5. Control the Tap  to hang up the phone.

Figure 35 Calling screen



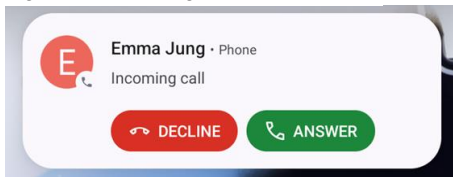
Icon	Function Name	Description
	Keypad	Open the keypad
	Mute	Mute microphone
	Speaker	Speakerphone mode
	(More) Add call	Add another call (Enable when receiver answer the phone)
	(More) Hold	Hold the call

Learning the Basics

Answering a call

Check the caller's name and number and tap **ANSWER** button to answer the phone call. Or tap **DECLINE** button to decline the phone call.

Figure 36 Receiving call



Learning the Basics

Contacts

Add a contact

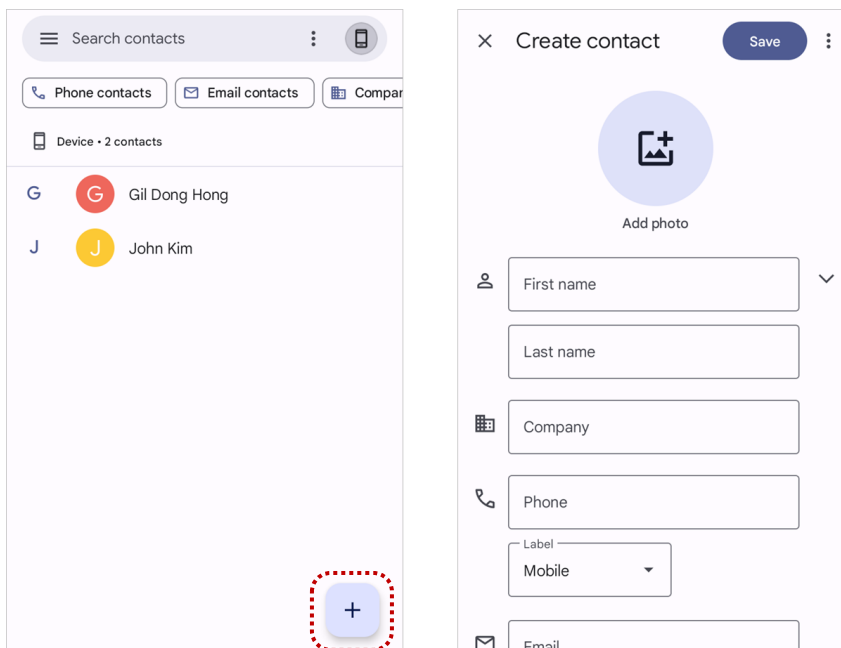
Add a contact via dialer

1. Navigate to dialer through Phone, and enter the number.
2. Tap **Create new contact** or **Add to a contact** to save the number.
3. Input additional information.
4. Tap **Save**.

Add a contact via contacts app

Navigate to **Contacts**  from App drawer and tap  to add a new contact.

Figure 37 Add new contact via Contacts



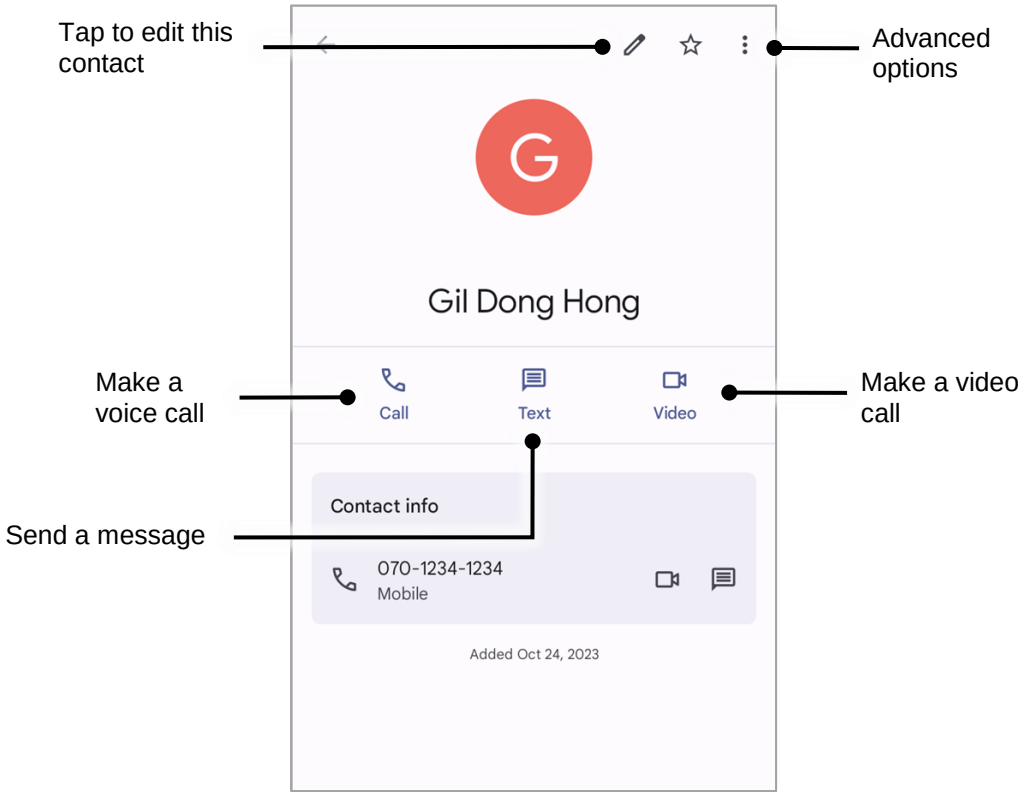
Enter the contact details and tap **Save** on the top of the screen.

Learning the Basics

Contact detail

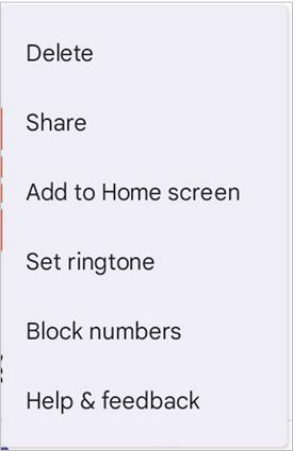
Select a contact from the list to find more detail information.

Figure 38 Contact detail



Tap  to open advanced options such as delete, share, block, etc.

Figure 39 Contact advanced options



Learning the Basics

Message

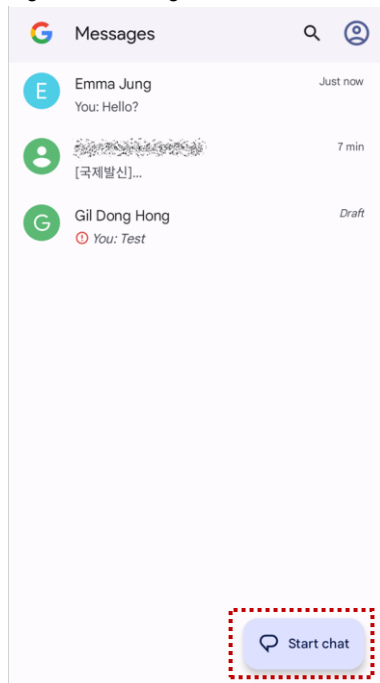


Note: Message feature is only available on LTE SKU (SKU5 ~ 8). And it requires a SIM card.

Send a message or find the received message through Message application .

1. Launch **Message**  from App drawer.
2. Tap **Start Chat** and type the receiver's name or phone number.

Figure 40 Message list



3. Input a message.
4. Tap  icon to send.

Figure 41 Message send



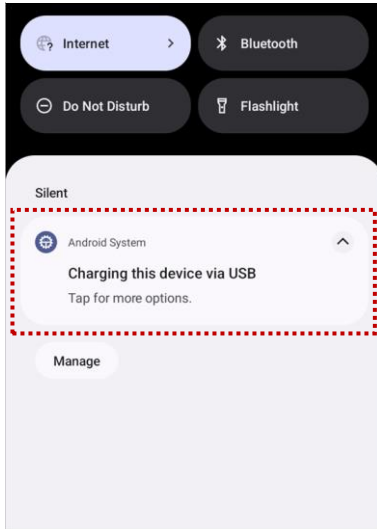
Learning the Basics

MTP Connection with PC

To transfer the files with a PC, connect the device to the PC via USB cable first.

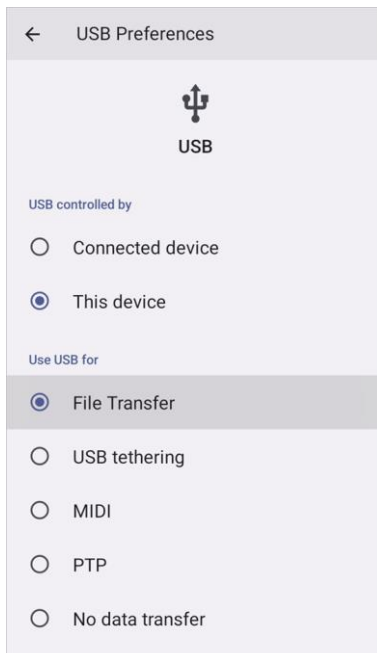
1. Drag down Status bar and tap **Android System** notification to change USB preference option.

Figure 42 USB connection notification



2. Change the option to **File Transfer** from **No data transfer**.

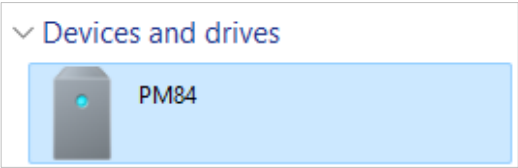
Figure 43 USB Preferences



Learning the Basics

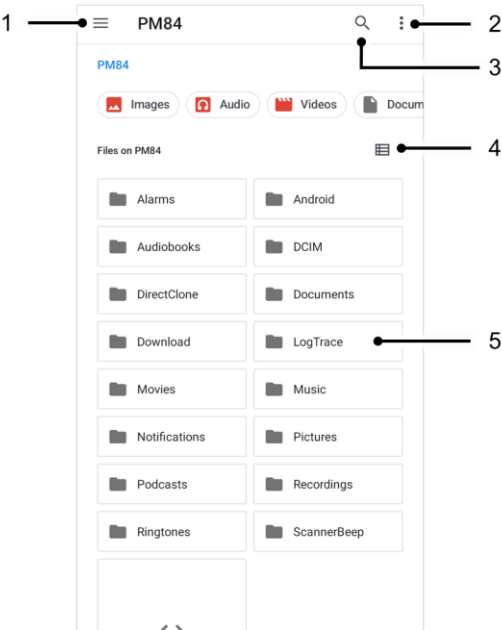
3. Now the PC can recognize the connected device. Find the PM84 device from the PC’s file explorer.

Figure 44 File explorer on PC



Manage the Files

Figure 45 FileExplorer main screen

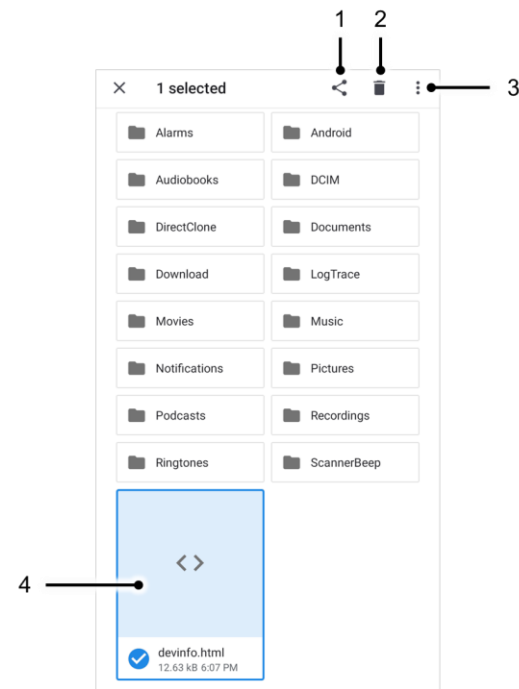


No	Description
1	Select a media file type or storage
2	Open the advanced option – Create a new window or folder, Select all files and folders, etc.
3	Search a file
4	Change the view of file list
5	Tap a file or folder to open. Or long-press a file or folder to select

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 46 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

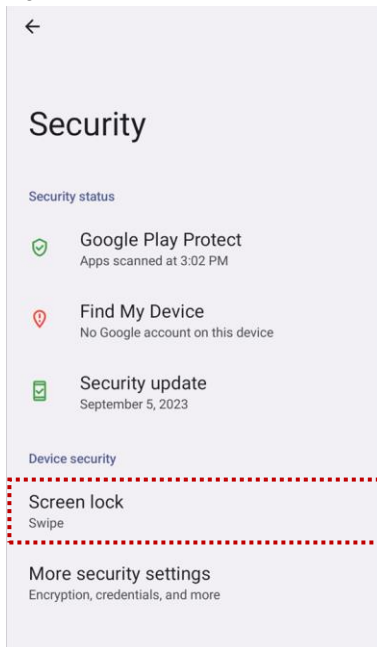
Learning the Basics

Lock the Screen

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

1. Navigate to **Settings**  > **Security**.
2. Tap **Screen lock**.

Figure 47 Screen lock



3. Choose a screen lock method.
 - 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

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 48 Normal brightness level



Figure 49 High brightness level (higher than 80%)

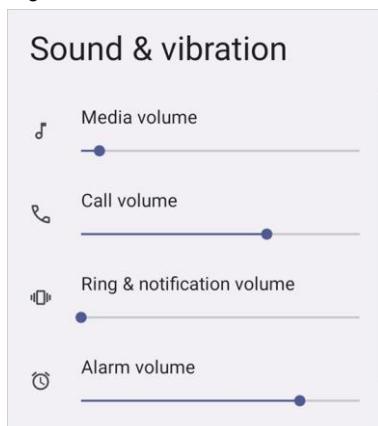


Warning: Using high brightness levels for long periods may cause eye strain and increase battery consumption.

Adjust sound

To adjust sound volume, go to **Settings**  > **Sound** and control the Media, Call, Alarm volume bars.

Figure 50 Volume bars



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

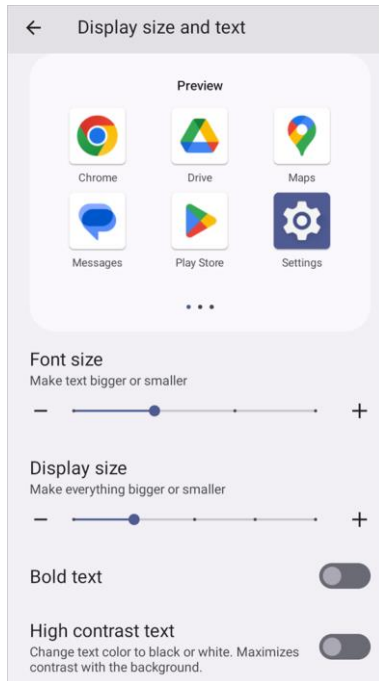
Learning the Basics

Adjust display and text size

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

1. Go to **Settings**  > **Display** > **Display size and text**.
2. Referring to the **Preview**, adjust the size controller.

Figure 51 Set font size



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.

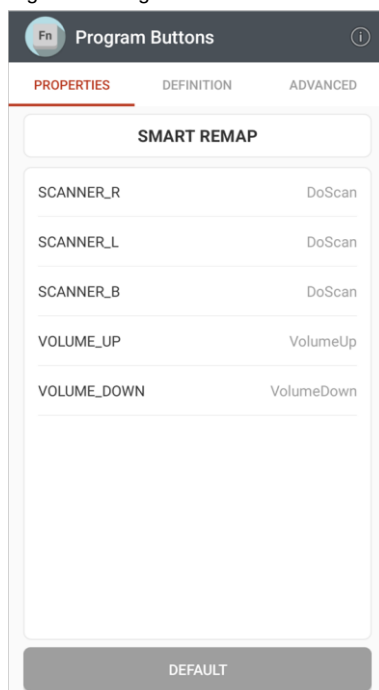
The screenshot image will be saved to **Pictures > Screenshots** folder in the internal storage.

Program Buttons

Most buttons on the PM84 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 52 Program Buttons - Button list



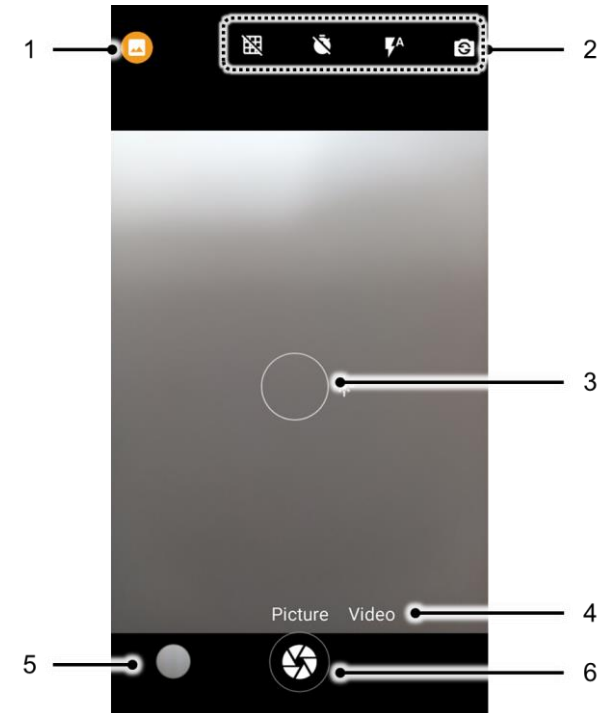
Note: SCANNER_B indicates the trigger button on the gun handle.

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 53 is a main screen of Camera application.

Figure 53 Camera main screen



No	Name	Description
1	Modes	Select a mode depending on the target (normal / QR code)
2	Advanced camera option	 : Display the grid on the screen  : Set timer  : 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	Picture / Video	Swipe or tap to change the mode (Picture / Video)
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.

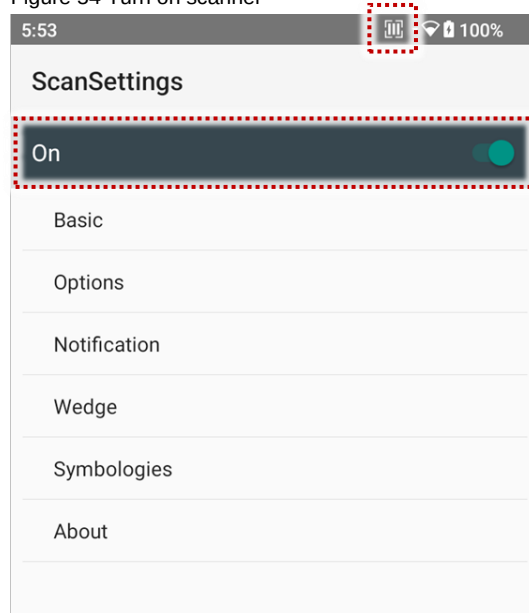
Turn on / off the Scanner

The scanner is turned on by default. You can check the scanner status by the icon  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/off the barcode scanner.
3. Check if the scanner icon  is placed on Status bar.

Figure 54 Turn on scanner



Scanner

ScanSettings

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

- Basic
- Options
- Notification
- Wedge
- Symbolologies
- About

Basic

Control the scanning options and wedge mode options.

1. Scanning

- Change the scanner's trigger timeout and set scan mode (single / auto / continuous / multi scan).
- Enable or disable the TouchScan, which is a software scanner button. Place a scan icon in any position and tap the icon to read a barcode.

Figure 55 ScanSettings - Basic

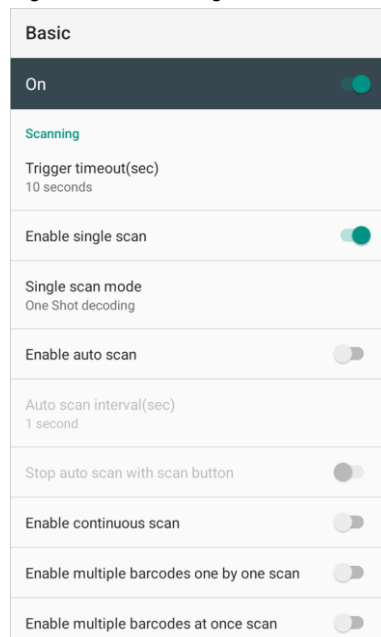
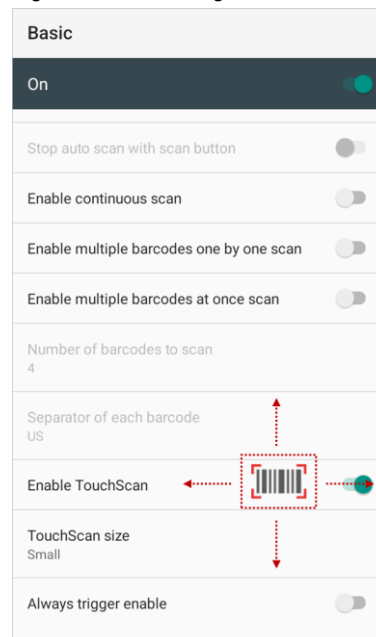


Figure 56 ScanSettings - TouchScan



Scanner

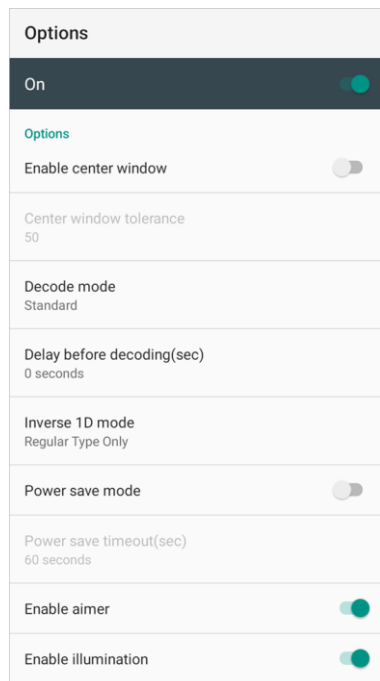
2. Wedge mode

- Change the result type of decoded data among the below list.
 - User Message
 - Keyboard Event (Multiple)
 - Keyboard Event (Single)
 - Clipboard (KEYCODE_PASTE)
 - Clipboard (Ctrl + V)
 - Intent Broadcast
 - Custom Intent
- Set Terminator as,
 - None
 - Space
 - Tab
 - LF
 - Tap & LF

Options

Enable / Disable the center window, Aimer, Illumination. And set scanner decoding settings.

Figure 57 ScanSettings - Options

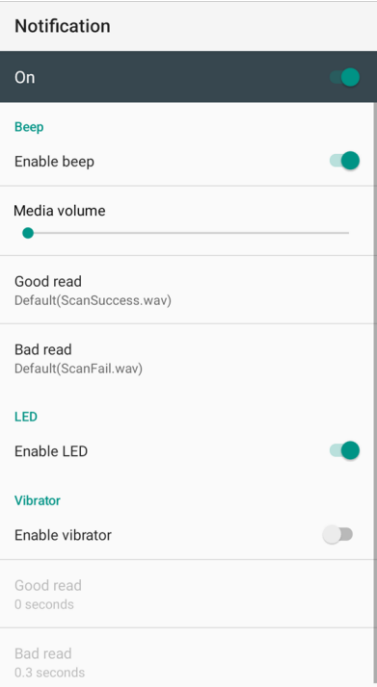


Scanner

Notification

Control the beep sound, LED and vibration option when scanning the barcode.

Figure 58 ScanSettings - Notification



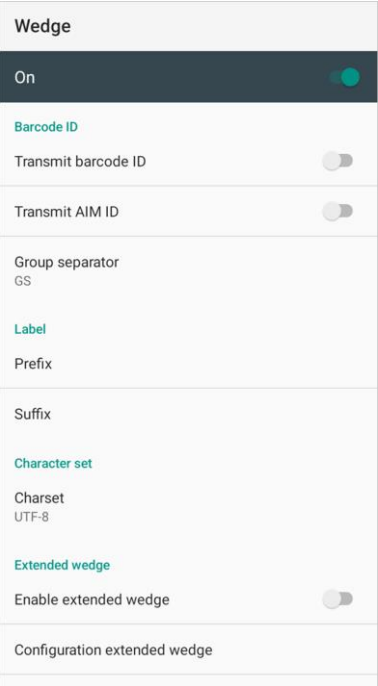
Scanner

Wedge

Set below items in Wedge settings

- Barcode ID
- AIM ID
- Group separator
- Prefix
- Suffix
- Character set
- Extended Wedge

Figure 59 ScanSettings - Wedge

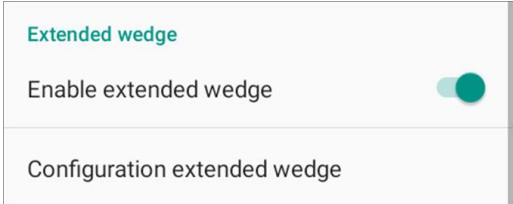


Scanner

Extended wedge

PM84 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**.

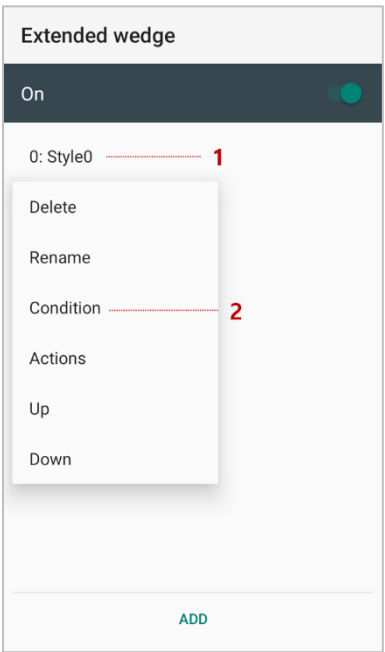
Figure 60 ScanSettings - Extended wedge



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).

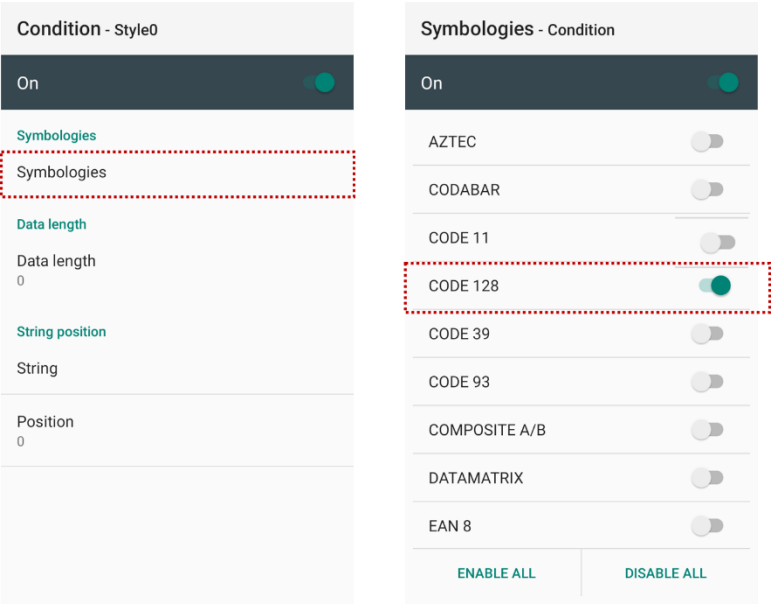
Figure 61 Extended wedge example_1



Scanner

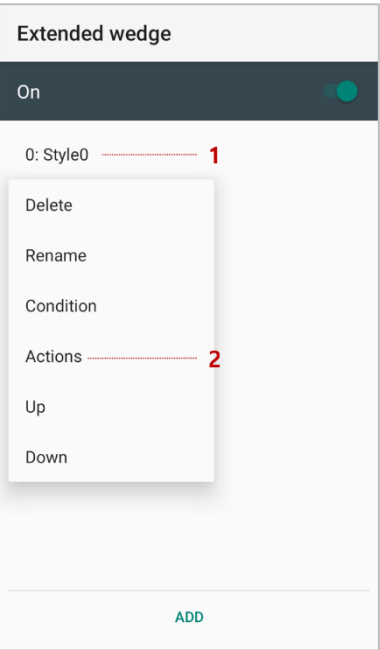
2. Tap **Symbologies** and select **CODE128** among the symbologies.

Figure 62 Extended wedge example_2



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

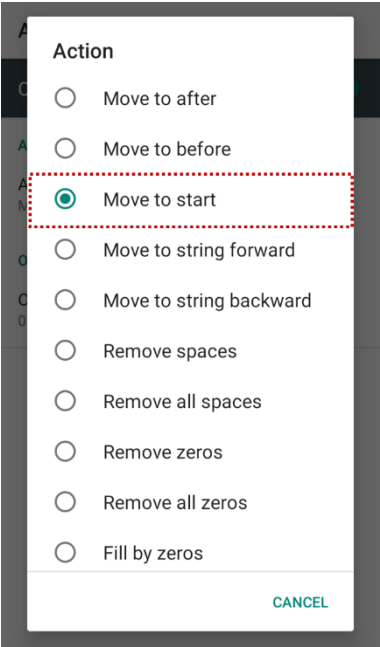
Figure 63 Extended wedge example_3



Scanner

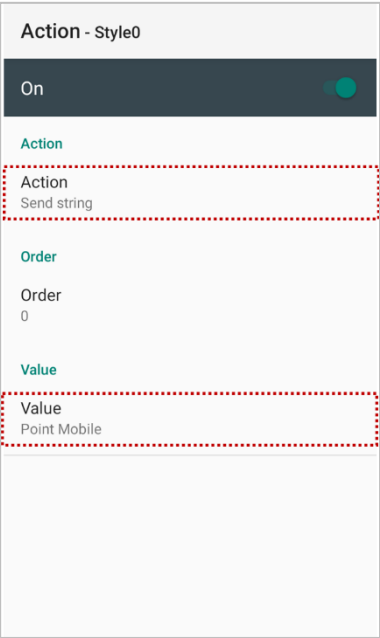
4. Tap **ADD** and select **Move to start** to point the start of the decoded data.

Figure 64 Extended wedge example_4



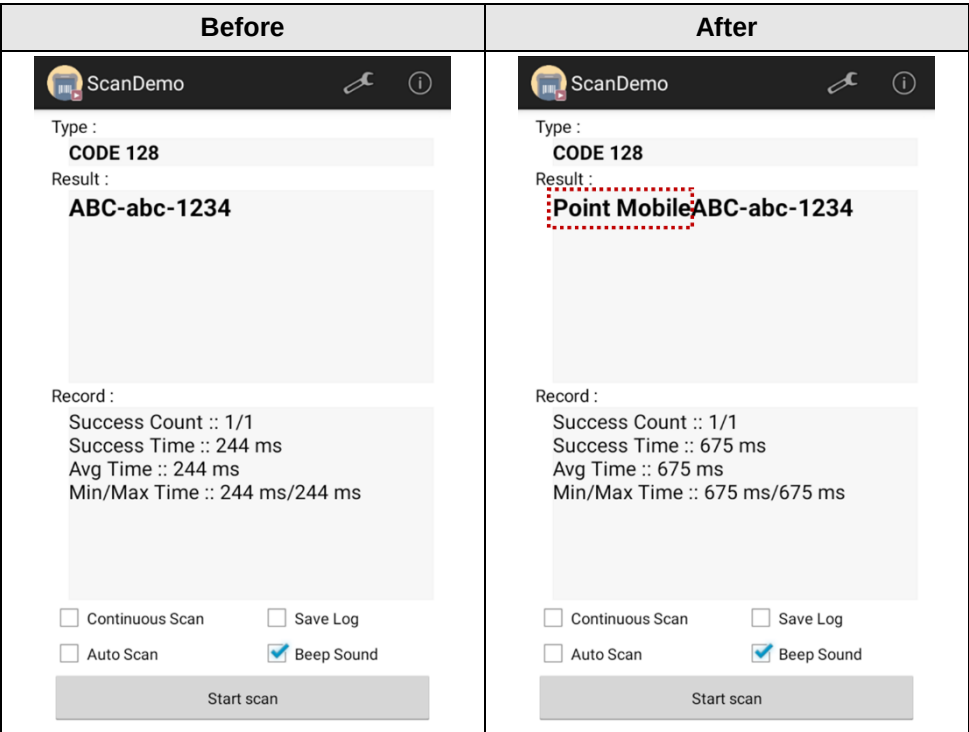
5. Add another action of which action type is Send string. Set value as “*Point Mobile*”.

Figure 65 Extended wedge example_5



Scanner

6. “Point Mobile” string will be added to decoded CODE128 data.

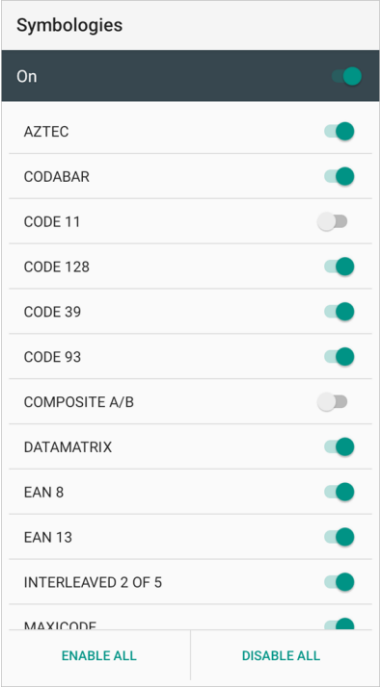


Scanner

Symbologies

Enable or disable the specific symbology or set detail options. By tapping each symbology name to access detail options.

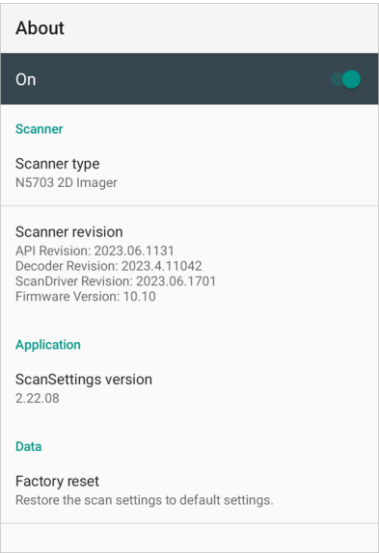
Figure 66 ScanSettings - Symbologies



About

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

Figure 67 ScanSettings - About



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.

**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.

N5703 Scanner SKU

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 68 Aiming barcode (N5703)



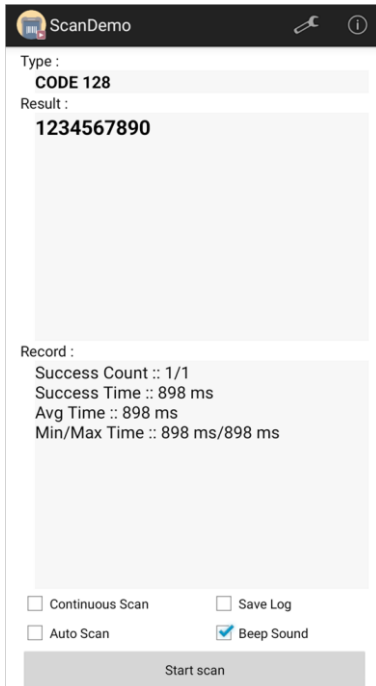
Scanner

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. Find scan result.

Figure 69 ScanDemo



Wireless

Mobile Network

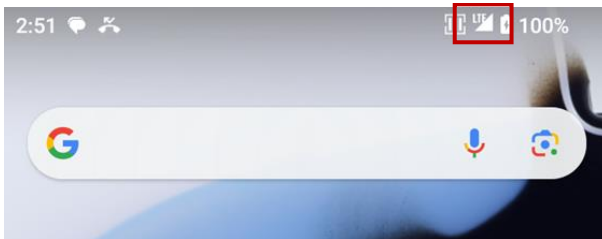


Note: Mobile network is supported on PM84 LTE SKU (SKU 5 ~ 8) only.
Check if your device is LTE SKU.

To connect mobile network, SIM card is required. Insert SIM card first referring [Install SD & SIM cards](#).

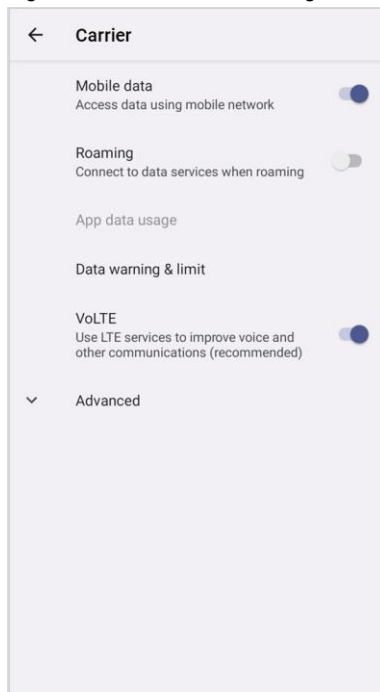
After inserting the SIM card, reboot the device. When network is connected, a network icon will be appeared on the status bar.

Figure 70 Mobile network icon



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

Figure 71 Mobile network setting



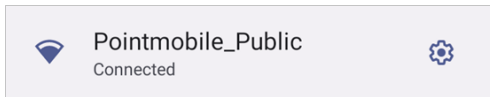
Wireless

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 72 Wi-Fi connected



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 73 Open Wi-Fi Network

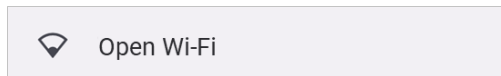
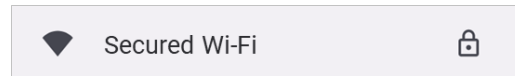
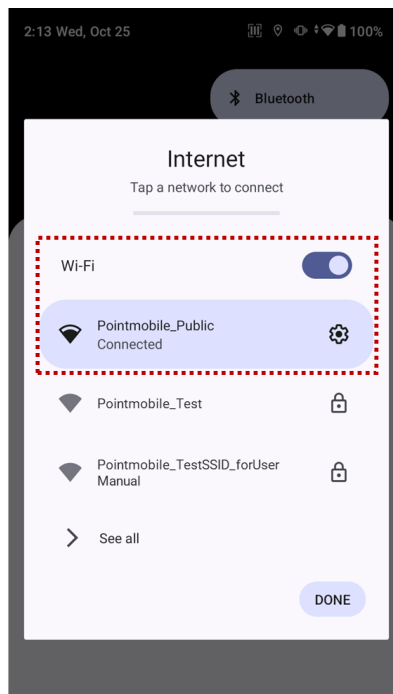
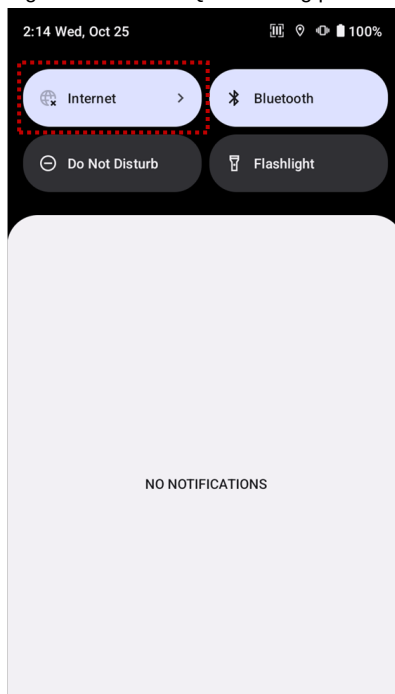


Figure 74 Secured Wi-Fi Network



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 75 Wi-Fi on Quick setting panel



Wireless

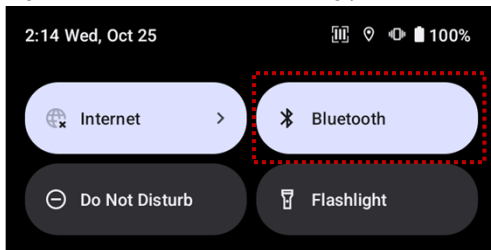
Bluetooth

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 76 Bluetooth in Quick setting panel



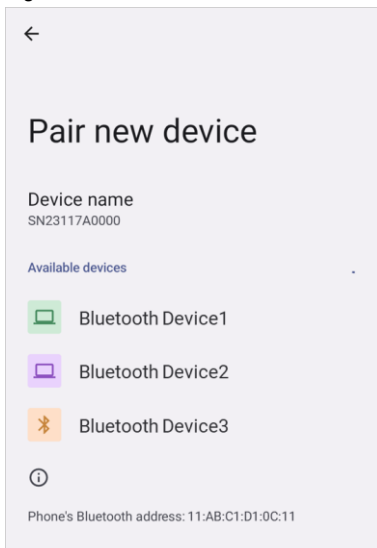
- Go to **Settings**  > **Connected devices** > **Pair new device**

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.

Figure 77 Bluetooth available devices

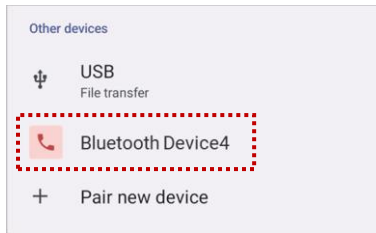


4. Follow instructions on the screen (Pairing code or pairing confirmation dialog) and tap **PAIR**.

Wireless

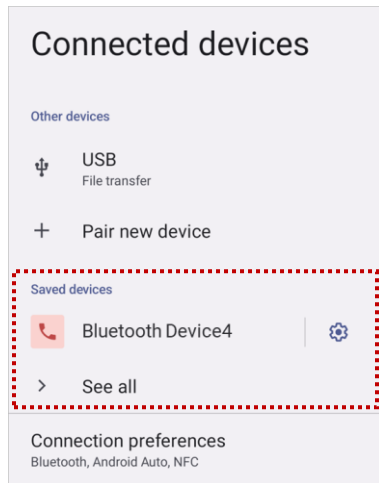
5. When the connection is succeeded, the connected device name is listed under the **Other devices** list.

Figure 78 Bluetooth currently connected



To connect a device previously connected, select the device name from the **Saved devices** list.

Figure 79 Previously connected devices

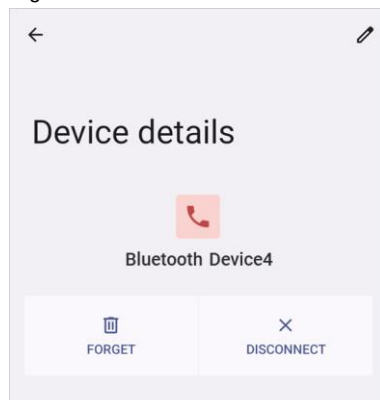


Unpair and Disconnect

To unpair (forget) 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 80 Bluetooth device details



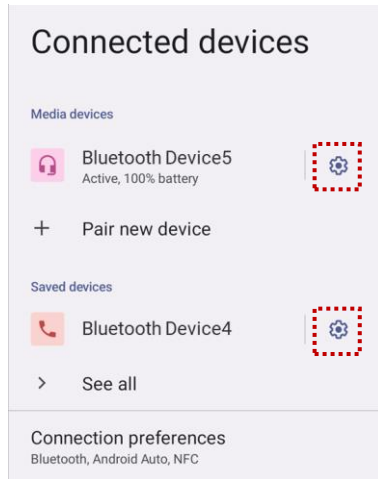
Wireless

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 81 Bluetooth device detail button



- 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

PM84's NFC antenna is located at the 1/3 top of the display. Bring the NFC tag close to the tapping area as Figure 83.

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 82 PM84 NFC tapping area



Figure 83 PM84 NFC tapping



RFID

PM84 can get RFID tag data through RF88 (sold separately). PM84 and RF88 can be connected using Bluetooth or wired connection.

To connect the devices, **RFID Control** application is required. You can download the app from Service Portal.

If you want to install the PM84 onto the RFID reader, a PM84-dedicated sled bracket must be assembled on the RF88.



Note: Find more detail in RF88 User manual.

System Maintenance

System Information

There are two ways for checking system information, on settings and on EmKit.

On Settings

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

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

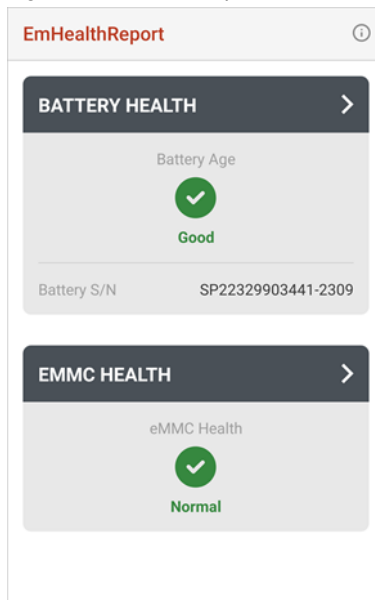
Check Device Health

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 84 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.



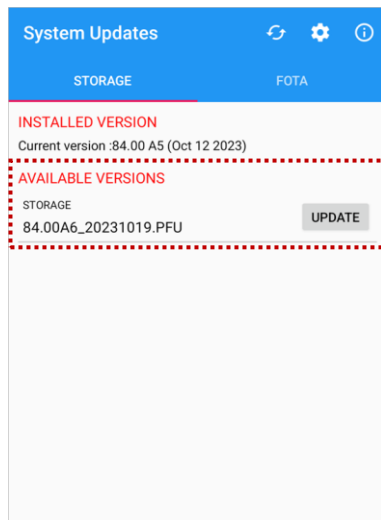
Caution: Please backup your data before starting the update process.

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 85 OS update via storage



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



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.

System Maintenance

OS update via OTG port

PM86 supports the USB OTG feature.

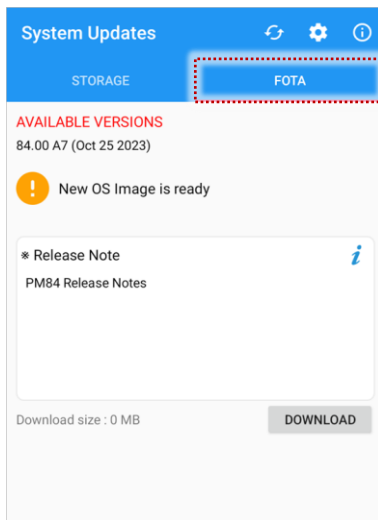
1. Prepare a formatted USB flash drive for OS update.
2. Copy an OS image file to the root folder of the flash drive.
3. Connect the flash driver to the PM84.
4. Go to **Settings**  > **System** > **System Update**.
5. Check if the OS image file shows up under **AVAILABLE VERSIONS**.
6. Tap **UPDATE** to start the update process.

OS update via FOTA

If PM84 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 86 OS update via FOTA

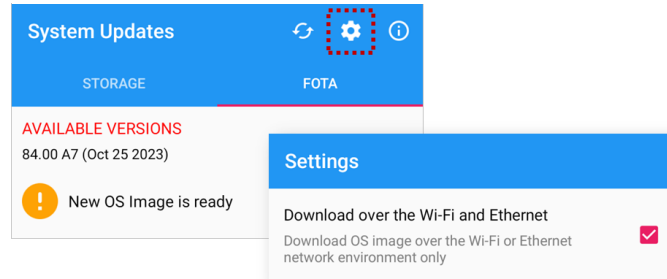


System Maintenance

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.

i **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 87 FOTA Settings



System Maintenance

Factory Data Reset

When the PM84 works abnormal or there is a need to reset the device, follow the steps below to perform a factory data reset.



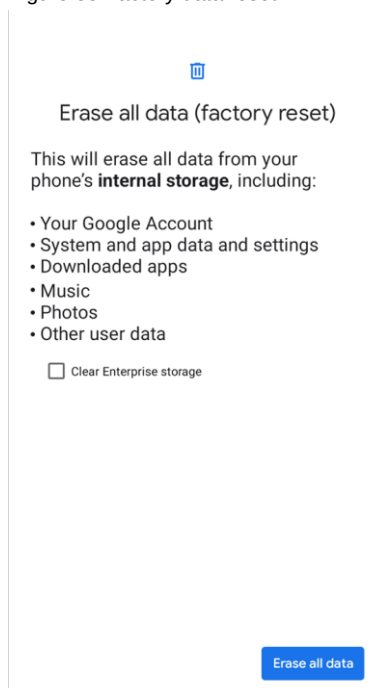
Warning: Factory data reset will erase all personalized settings and data saved in the device, such as Google account, apps, user data, etc. And factory data reset cannot undo.

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**.

Figure 88 Factory data reset



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

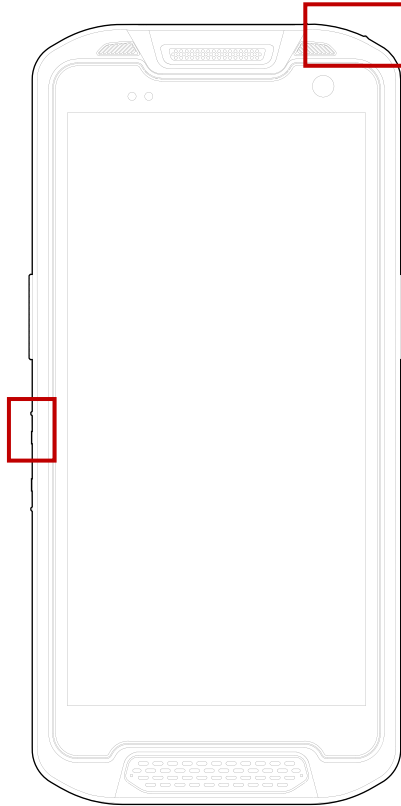
System Maintenance

Factory data reset via recovery mode

If device works abnormal so does not turn on, try to perform factory data reset through Android recovery mode.

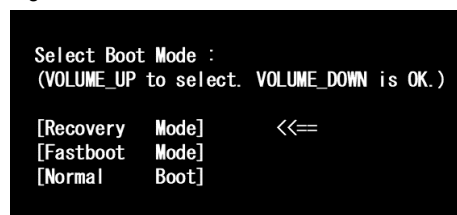
1. Press and hold **power button** + **Volume Up** buttons simultaneously when PM84 is turned off.

Figure 89 Key combination for recovery mode



2. After short vibration, release the buttons.
3. Select the **Recovery Mode** using the volume up (move) and volume down (select) buttons.

Figure 90 Select boot mode

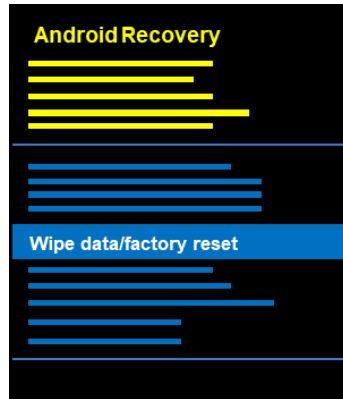


System Maintenance

4. When the device enters the recovery mode as below, select **Wipe data/factory reset** using the following buttons.

- **Move up/down** – Volume up/down
- **Select the menu** – Power button

Figure 91 Android recovery mode



5. Select **Factory data reset**.
6. After wiping the data, select **Reboot system now**.

Accessories

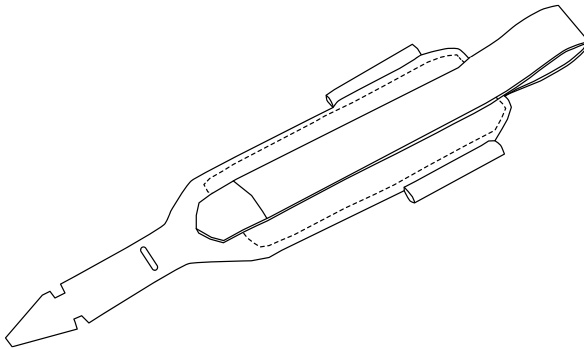
PM84 supports below accessories. All accessories except hand strap are sold separately.

Category	Accessory Name	Usage
Hand strap	Hand strap	Carries PM84 easily
Protection case	Rugged boot	Protects PM84 from drop or damage
Sled type	Gun handle	Provides an ergonomic trigger button (Programmable)
	RF88	RFID reader. Reading RFID tags
Charging cradle	SSC (Single Slot Cradle) / SEC (Single Slot Ethernet Cradle)	Charges one PM84 and one PM84 battery Provide USB type C port or ethernet port
	4SC (4 Slot Cradle)	Charges up to 4 units of PM84 at the same time
	4SBC (4 Slot Battery Cradle)	Charges up to 4 pieces of PM84's batteries at the same time

Hand Strap

The hand strap is enclosed in the PM84 standard package. Attach the strap and you can hold the device more firmly.

Figure 92 Hand strap

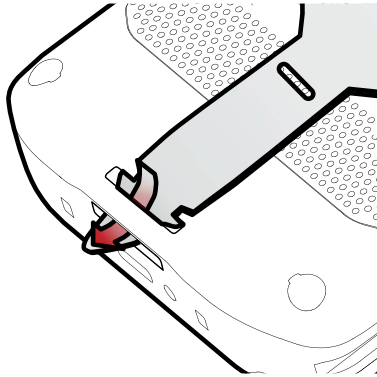


Accessories

Attach hand strap

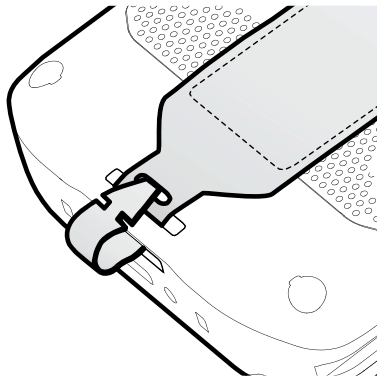
1. Using the arrow-like side of the strap through the hand strap hole on the bottom.

Figure 93 Attaching hand strap - 1



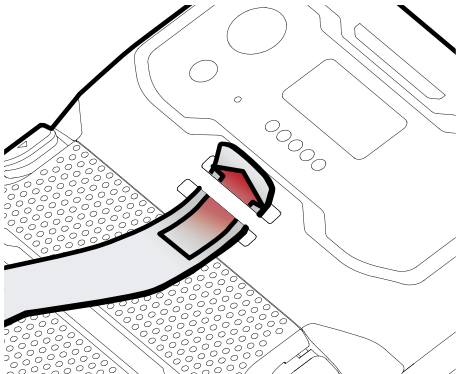
2. Insert the arrowhead into the small hole of the hand strap and pass it through the neck.

Figure 94 Attaching hand strap - 2



3. Thread the opposite side of the strap through another hand strap hole.

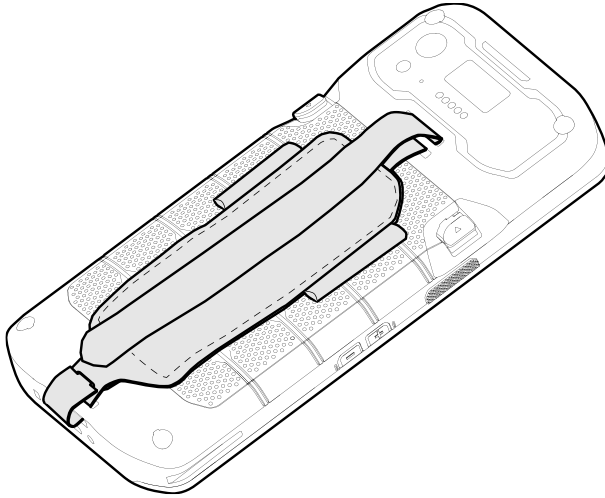
Figure 95 Attaching hand strap - 3



Accessories

4. Pull the strap and attach the Velcro at the desired length.

Figure 96 Hand strap attached



Accessories

Rugged Boot

To protect the PM84 from damage such as drop or tumble, attach a rugged boot to PM84.

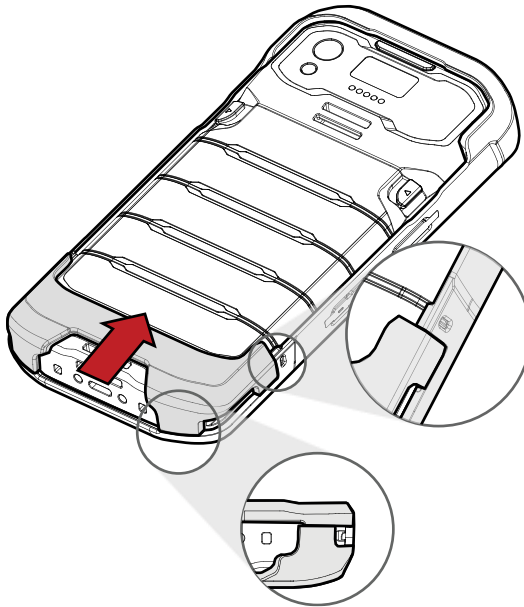
1. Install the top part of the rugged boot first. Insert the device from the back of the rugged boot.

Figure 97 Installing rugged boot - 1



2. Slide the bottom part of the rugged boot onto the device.
3. Make sure that the two parts are engaged firmly.

Figure 98 Installing rugged boot - 2



Accessories

Gun Handle

With gun handle, you can use additional programmable button. The button is used for triggering scanner usually.

If you want to change the function mapped to the trigger button, access [Program Buttons](#) and set **SCANNER_B** to the desired function.

Figure 99 PM84/95 Gun handle



Attach gun handle

1. Put the PM84's top side to the fixture of the gun handle first.
2. Push the bottom side to engage the gun handle firmly.

Figure 100 Attaching gun handle

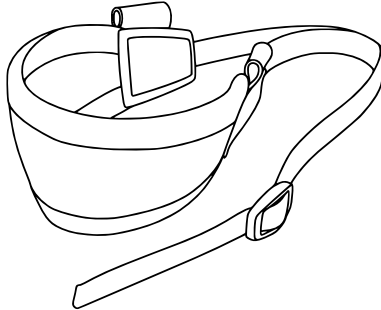


Accessories

Attach gun handle's hand strap

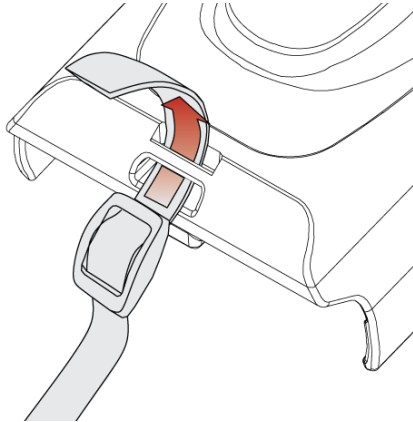
A hand strap is enclosed in the gun handle package. Attach the strap and carry the device more comfortably.

Figure 101 Gun handle - hand strap



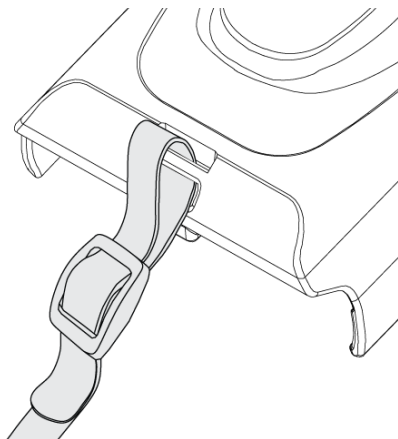
1. Thread the strap through the hole on the bottom side of the retention fixture

Figure 102 Gun handle - Attach hand strap_1



2. Slide the strap through the buckle at the appropriate length.

Figure 103 Gun handle - Attach hand strap_2



Accessories

RF88 (RFID Sled)

PM84 can get RFID tag data through RF88 (sold separately). PM84 and RF88 can be connected using Bluetooth or wired connection.

To connect the devices, RFID Control application is required. You can download the app from [Service Portal](#).

If you want to install the PM84 onto the RFID reader, a PM84-dedicated sled bracket must be assembled on the RF88 referring to the RF88 User Manual – Sled Bracket Replacement.

For more detail, see RF88 User Manual.

Accessories

Charging Cradles



Note: All cradles are compatible with PM95.

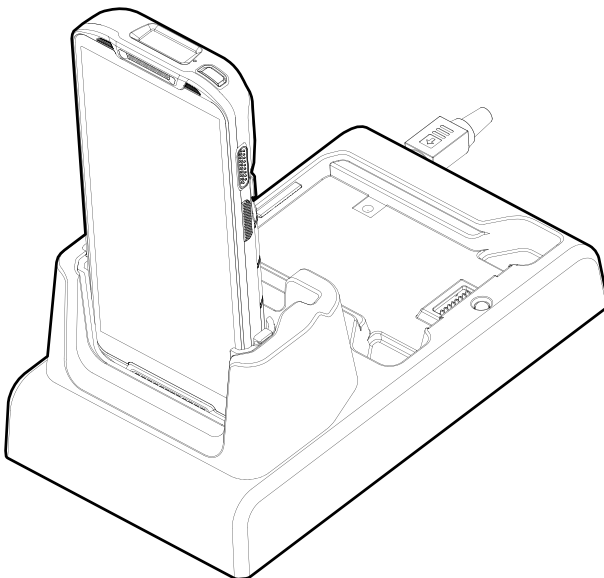
Single Slot (Ethernet) Cradle (SSC / SEC)

SSC/SEC can charge the followings.

- With Cradle cup
 - PM84 only
- Without Cradle cup
 - PM84 with gun handle mounted
 - PM84 with RF88 (RFID reader) mounted
 - PM84 with rugged boot

To charge the device with a sled type accessory mounted or with a rugged boot, you must remove the cradle cup from the cradle's device slot. For more detail, see the PM95/PM84 SSC / SEC Quick start guide.

Figure 104 PM84/PM95 SSC/SEC



Accessories

4SC (4 Slot Cradle)

4SC has 4 device slots so it can charge up to four units of PM84 simultaneously. The chargeable device combination is as follows.

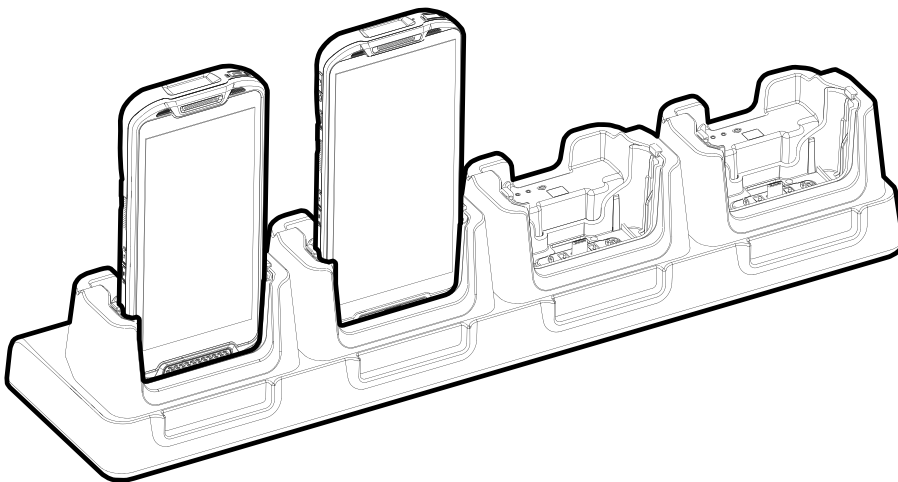
- With Cradle cup
 - PM84 only
- Without Cradle cup
 - PM84 with gun handle mounted
 - PM84 with RF88 (RFID reader) mounted (but RF88 will not be charged)
 - PM84 with rugged boot

To charge the device with a sled type accessory mounted or with a rugged boot, you must remove the cradle cup from the cradle's device slot. For more detail, find the PM95/PM84 4SC Quick start guide.



Note: PM84 with RF88 mounted can be installed on the 4SC, but RF88 will not be charged (Charge PM84 only).

Figure 105 PM84/PM95 4SC

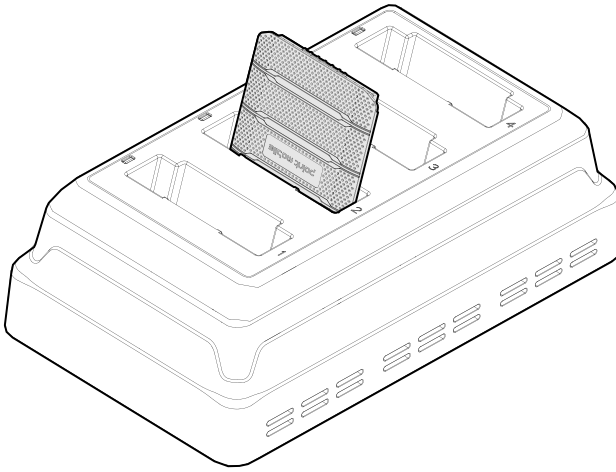


Accessories

4SBC (4 Slot Battery Cradle)

4SBC has 4 battery slots so it can charge up to four pieces of PM84's battery simultaneously. For more detail, see the PM95/PM84 4SBC Quick start guide.

Figure 106 PM84/PM95 4SBC



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 $20\pm5^{\circ}\text{C}$.
- 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.



Warning: 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.

Specification & Certification

Rating	Adaptor: 5V / 2A Battery: 3.87V
Operating temperature	-20°C to 60°C / -4°F to 140°F
WLAN	802.11 a/b/g/n/ac + following frequencies 802.11 b/g/n (Bandwidth: 20MHz): 2 412 MHz ~ 2 472 MHz (TRX) 802.11 n (Bandwidth: 40MHz): 2 422 MHz ~ 2 462 MHz (TRX) 802.11 a/n/ac (Bandwidth: 20MHz): 5 180 MHz ~ 5 320 MHz (TRX) 802.11 n/ac (Bandwidth: 40MHz): 5 190 MHz ~ 5 310 MHz (TRX) 802.11 ac (Bandwidth: 80MHz): 5 210 MHz ~ 5 290 MHz (TRX) 802.11 a/n/ac (Bandwidth: 20MHz): 5 500 MHz ~ 5 825 MHz (TRX) 802.11 n/ac (Bandwidth: 40MHz): 5 510 MHz ~ 5 795 MHz (TRX) 802.11 ac (Bandwidth: 80MHz): 5 530 MHz ~ 5 775 MHz (TRX)
LTE	LTE – B1 : 1 920 MHz ~ 1 980 MHz (TX) / 2 110 MHz ~ 2 170 MHz (RX) LTE – B3 : 1 715 MHz ~ 1 785 MHz (TX) / 1 810 MHz ~ 1 880 MHz (RX) LTE – B5 : 824 MHz ~ 849 MHz (TX) / 869 MHz ~ 894 MHz (RX) LTE – B7 : 2 500 MHz ~ 2 550 MHz (TX) / 2 620 MHz ~ 2 670 MHz (RX) LTE – B8 : 904.3 MHz ~ 915 MHz (TX) / 949.3 MHz ~ 960 MHz (RX)
WCDMA	1 922.8 MHz ~ 1 977.2 MHz (TX) / 2 112.8 MHz ~ 2 167.2 MHz (RX)
NFC	13.56 MHz
GPS	GNSS receiver support for GPS, GLONASS, Galileo and Beidou



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