Powered by Android™ 15

Enterprise Mobility

PM84P

User Manual

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Instruction

This manual provides information about basic features and using the PM84P. 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	10 Jun 2025	Initial release
v.1.1	02 Dec 2025	Updated Certification
v.1.2	03 May 2026	Updated Front Page, words
v.1.3		Updated 4SBCL

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Introduction

PM84P SKUs

The contents of this manual can cover the following SKUs.

SKU	Part Number	Battery	Scanner	Network	RAM /Flash	Common	Operating System
SKU1	PM84E3D03D5E0C	Standard	S0703	WiFi/BT	4G/64G	NFC Front/Rear Camera	Powered by Android™ 15
SKU2	PM84E3D0325E0C				8G/64G		
SKU3	PM84E6D03D5E0C			LTE, GPS, WiFi/BT	4G/64G		
SKU4	PM84E6D0325E0C				8G/64G		

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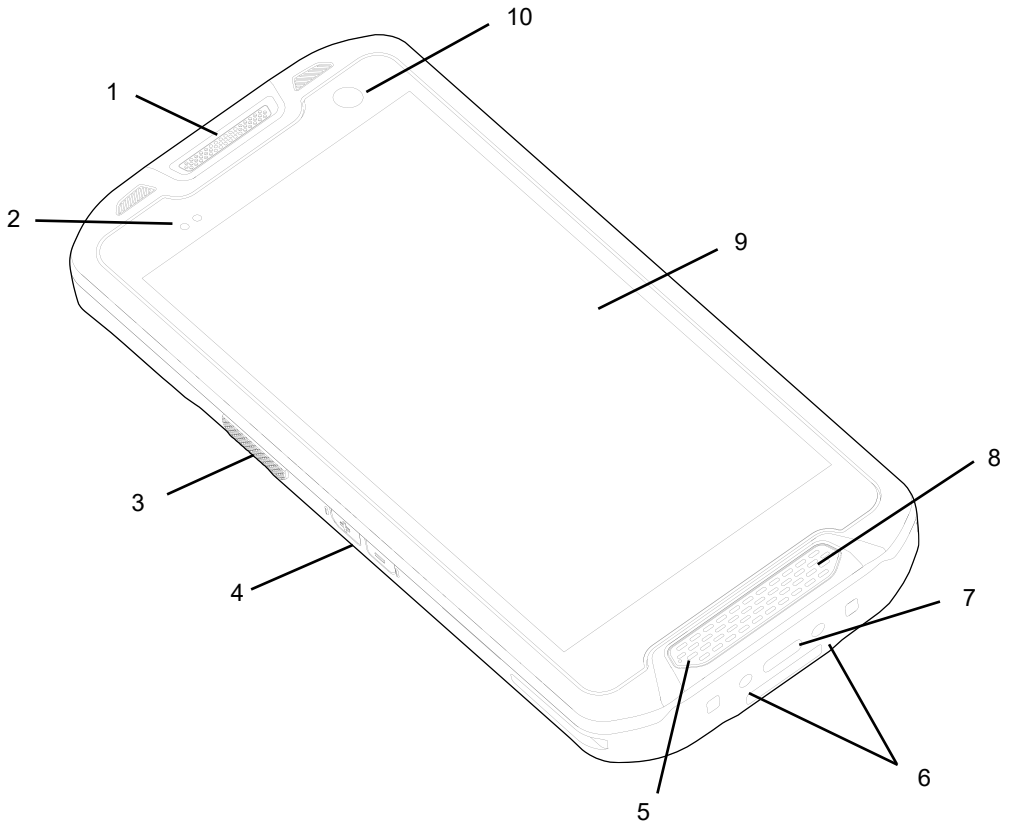
Battery Safety Information 84

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Getting Started

Device Parts

Figure 1 PM84P front + left view

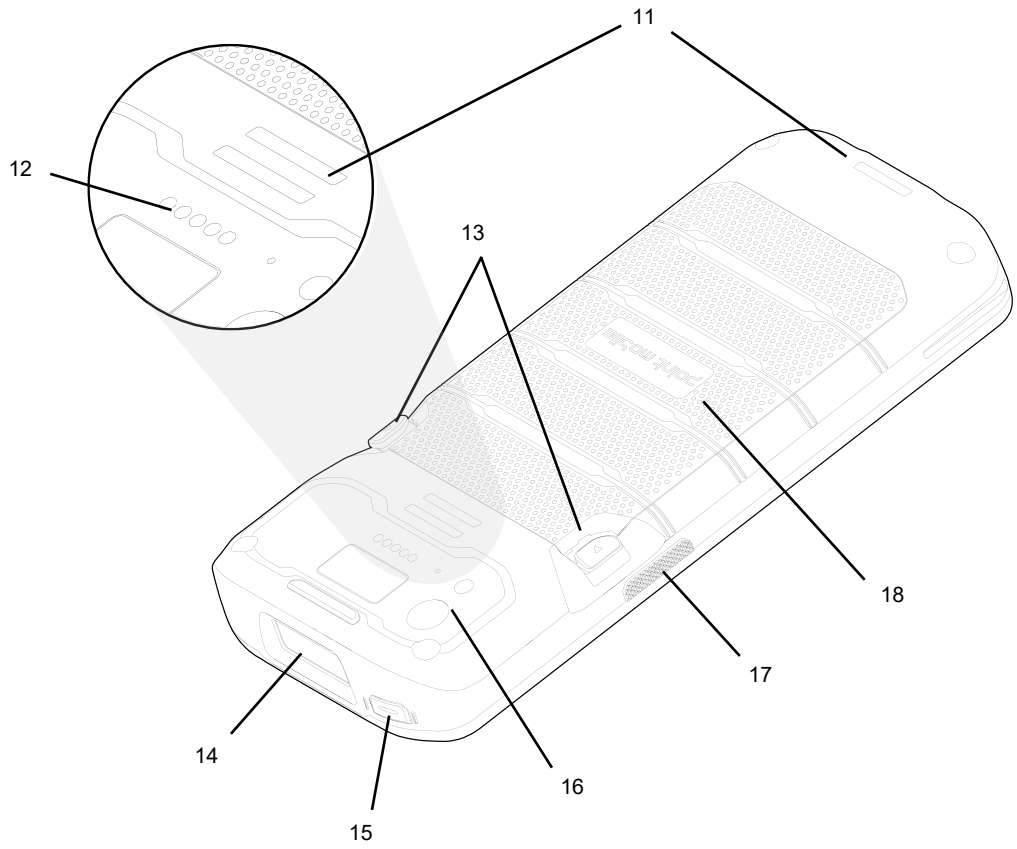


No	Name	Description
1	Receiver	Use with making a phone call
2	LED indicator	Indicate the power status and notification. Find more details in LED indicator
3	Scan button (Left)	Scan a barcode by pressing (Programmable button)
4	Volume buttons	Control the volume (Programmable button)
5	Microphone	Use for 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

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Getting Started

Figure 2 PM84P 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)

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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.*

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Getting Started

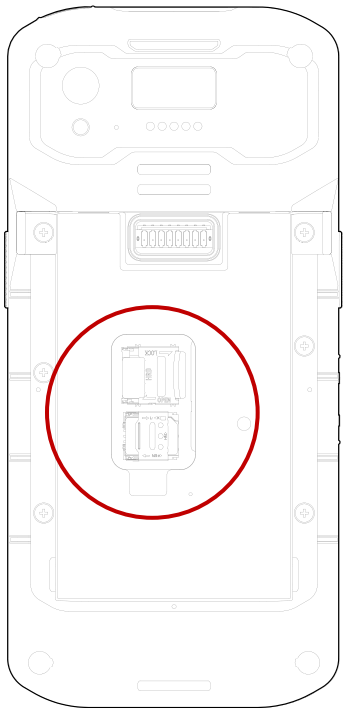
Install SD & SIM Cards

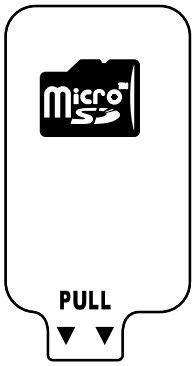
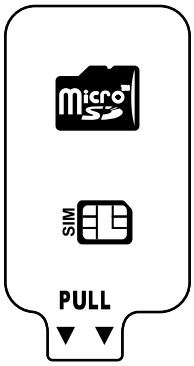
PM84P supports

- 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 PM84P Card Slots



Wi-Fi SKU (SKU1 ~ 2)	LTE SKU (SKU3 ~ 4)
	

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Card slot cover

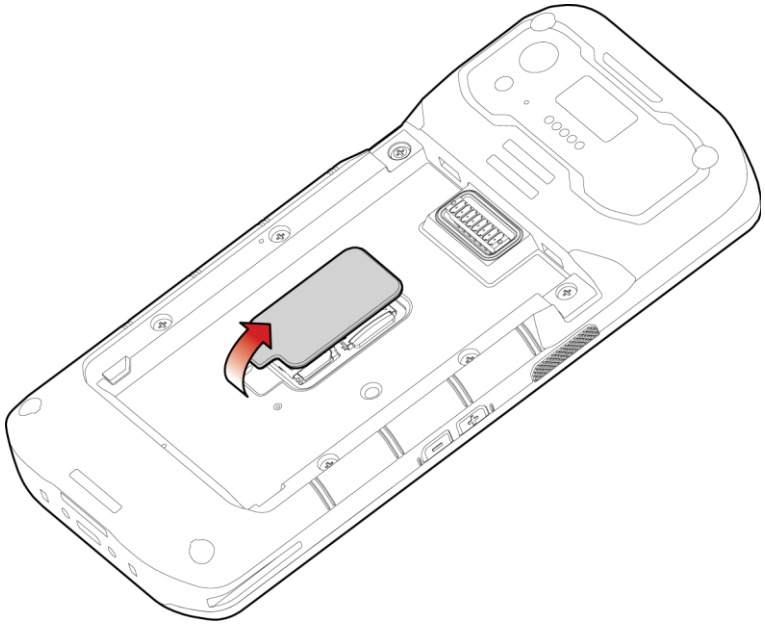
You must open the card slot cover to install or remove the cards. The slot cover protects the device from water, dust, etc.

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



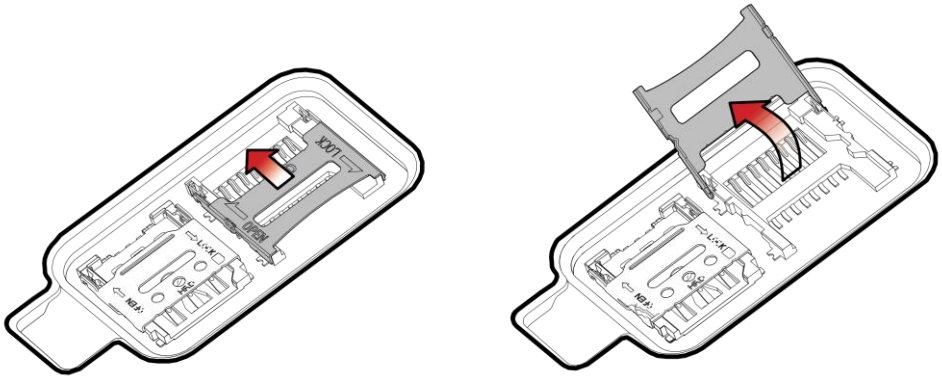
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Getting Started

Install SD card

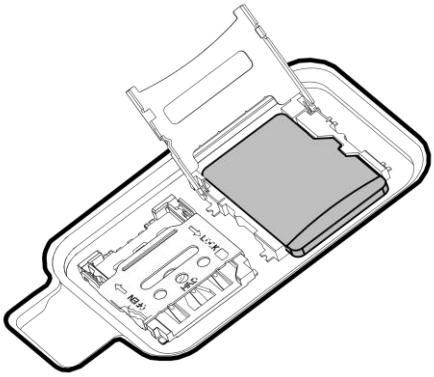
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **left**, and swing upwards to open the holder.

Figure 5 Open SD cardholder



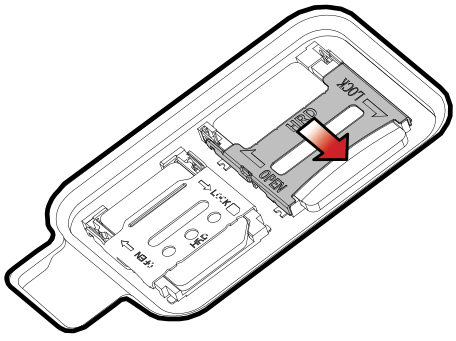
3. Put the SD card you prepared with the contacts facing down.

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.

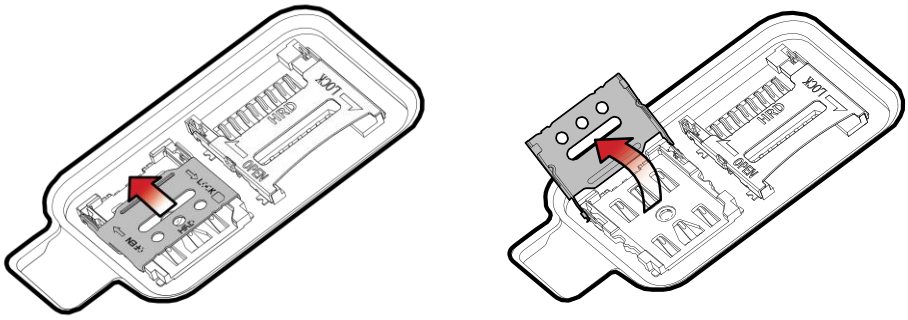
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Getting Started

Install SIM card

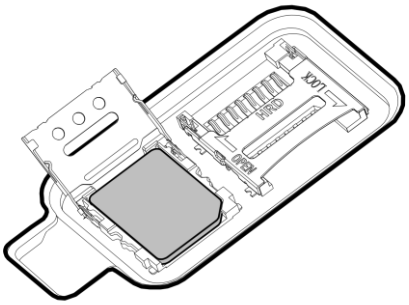
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **left**, and swing upwards to open the holder.

Figure 8 Open SIM cardholder



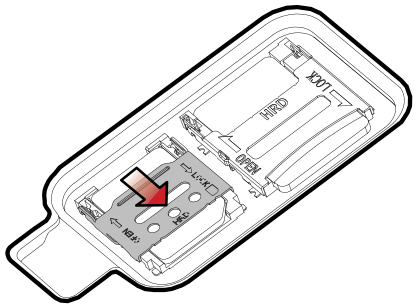
3. Put a nano SIM card you prepared with the contacts facing down.

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.

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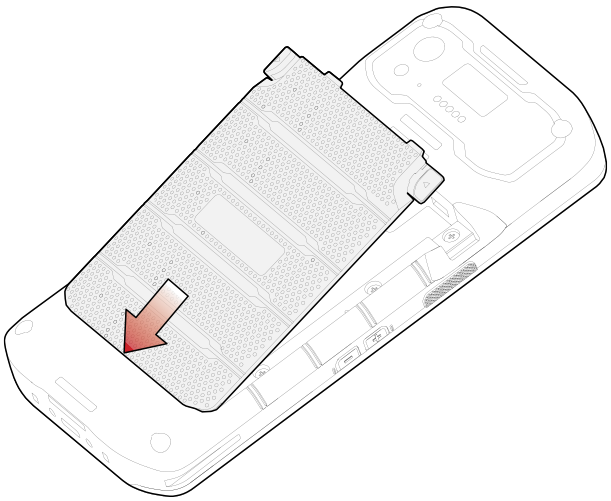
Install & Remove Battery

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.

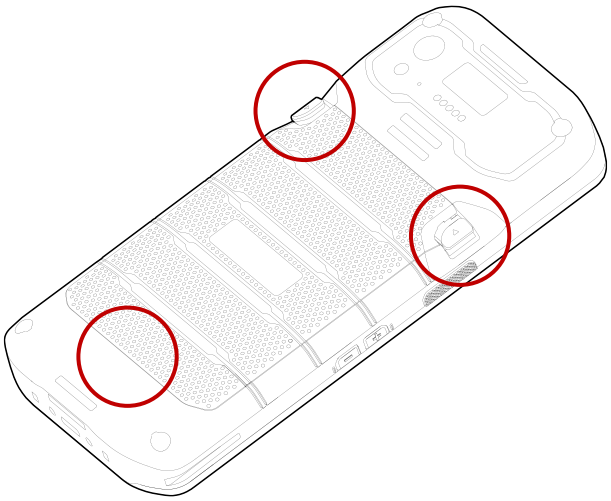
1. Insert the battery from the bottom side.

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



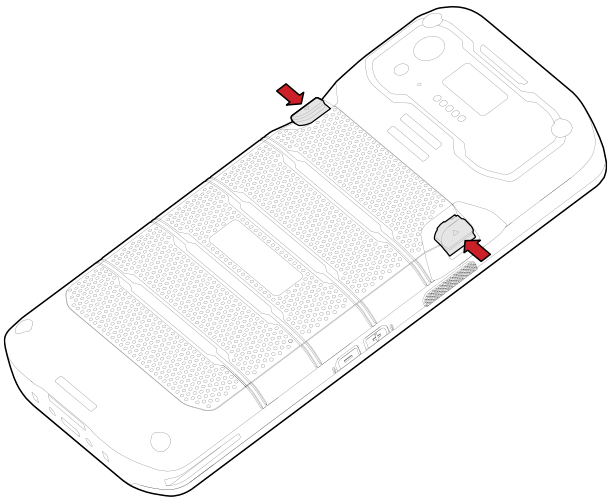
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Getting Started

Remove the battery

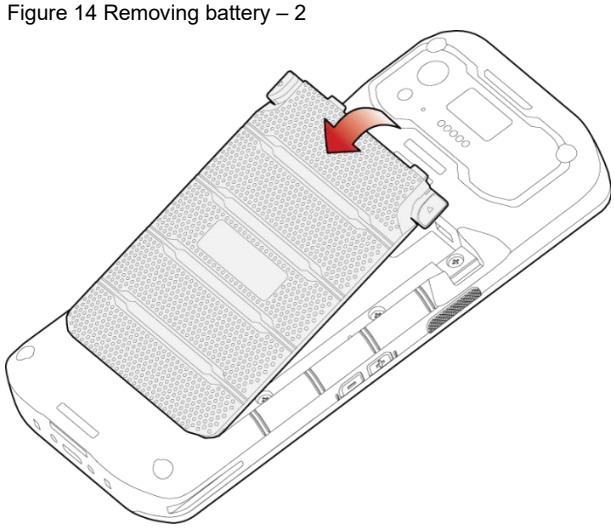
1. Hold the battery release buttons and press in.

Figure 13 Removing battery – 1



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

Figure 14 Removing battery – 2



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Getting Started

Battery hot swap

Battery hot swap is a feature that allows users to replace the battery without powering off.
PM84P 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.

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Getting Started

Charge the Device

Before using PM84P, charge the device enough to use. PM84P 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 PM84P. 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 ℃ to 45 ℃. At out-of-normal range temperatures, the PM84P may stop charging for safety, and the power LED blinks red.

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Getting Started

Smart Charging

PM84P supports three charging modes to provide optimal battery performance for your work.

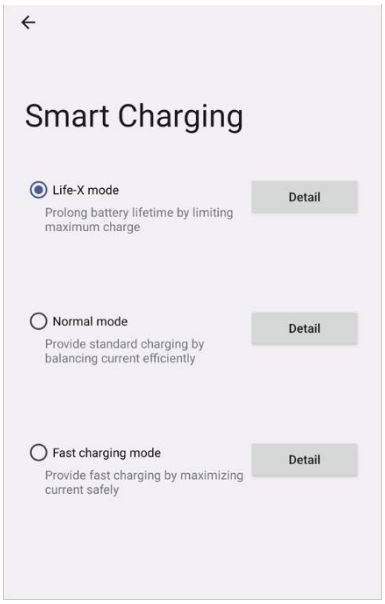
- **Life-X mode (Default)**
  - An optimized charging mode that improves the battery's lifespan and stability.

- **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



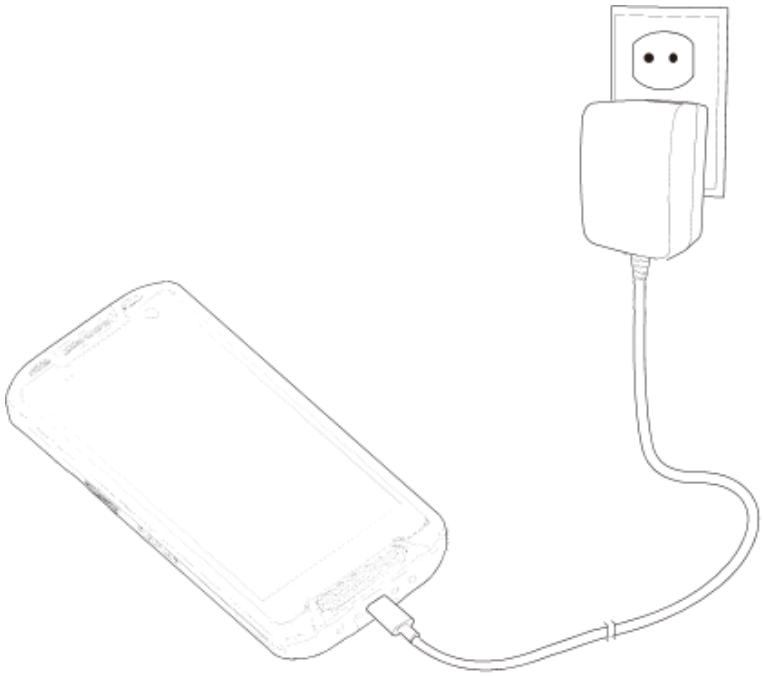
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Getting Started

Charge with power adapter

1. Assemble the country plug, power adapter.
2. Connect the cable to the USB connector on the bottom side of PM84P.
3. Provide power by plugging the power adapter to the wall socket.

Figure 16 PM84P charging with power adapter



Charging Cradle

There are 3 types of charging cradle for PM84P. 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.*

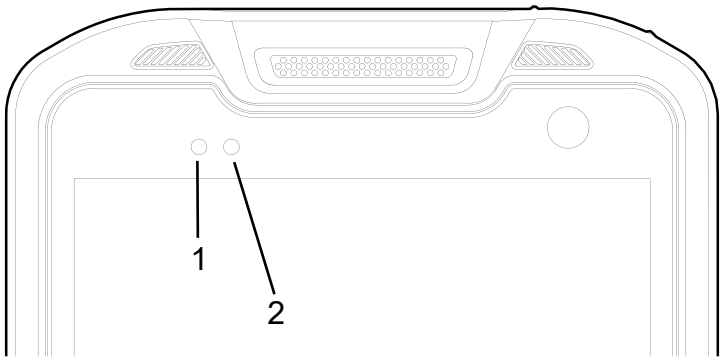
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Getting Started

LED Indicator

PM84P has 2 LED indicators above the screen.

Figure 17 PM84P 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

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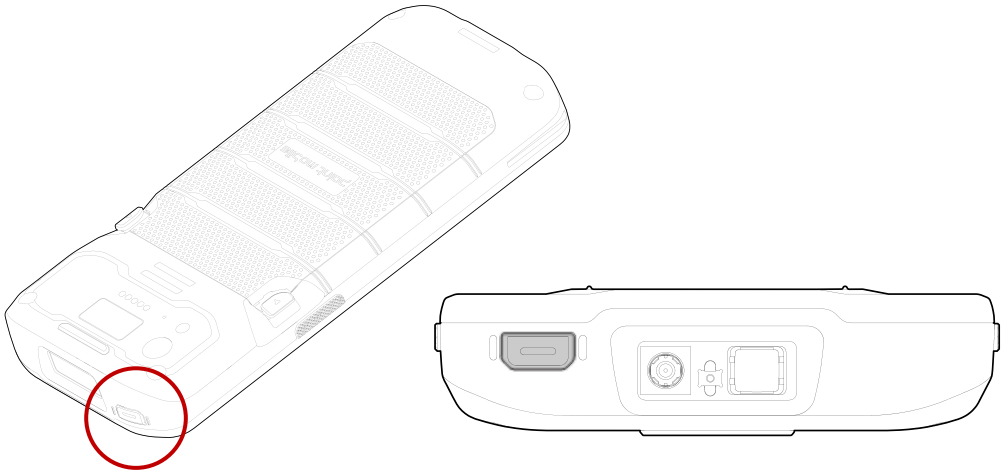
Getting Started

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.

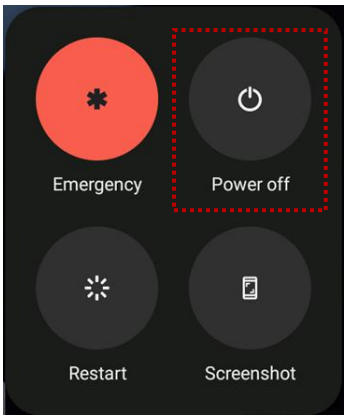
Figure 18 PM84P power button



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

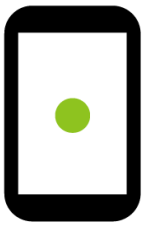
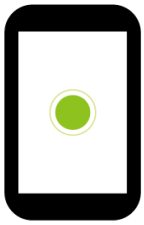
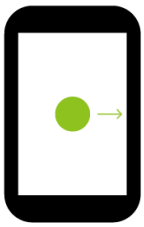
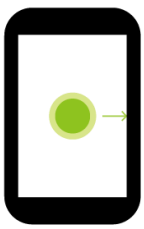
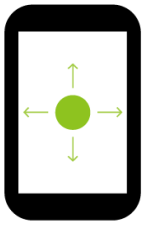


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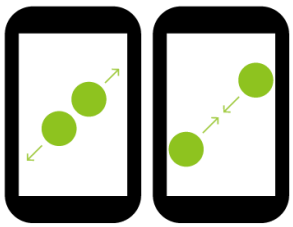
Use a Touch Screen

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

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	**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**

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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.

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Getting Started

Gesture Navigation

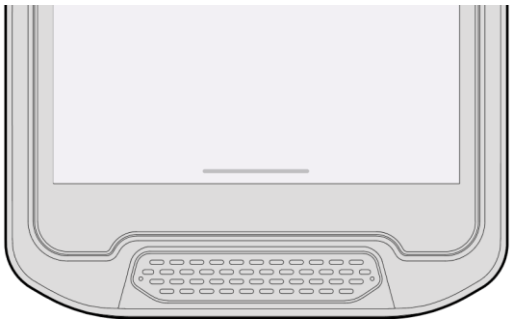
If you are unfamiliar with the navigation bar or you want to see the screen with a wider screen, hide the navigation bar. The functions provided by the software buttons on the navigation bar can be used by using specific gestures.

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.

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Learning the Basics

Setup Wizard

When PM84P 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)

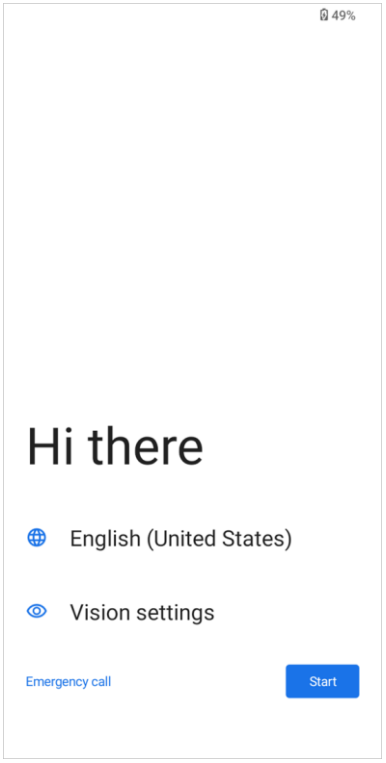
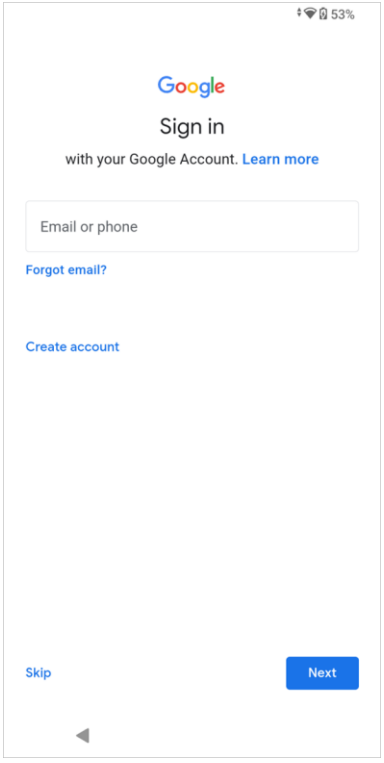


Figure 23 Setup Wizard (Google Account)



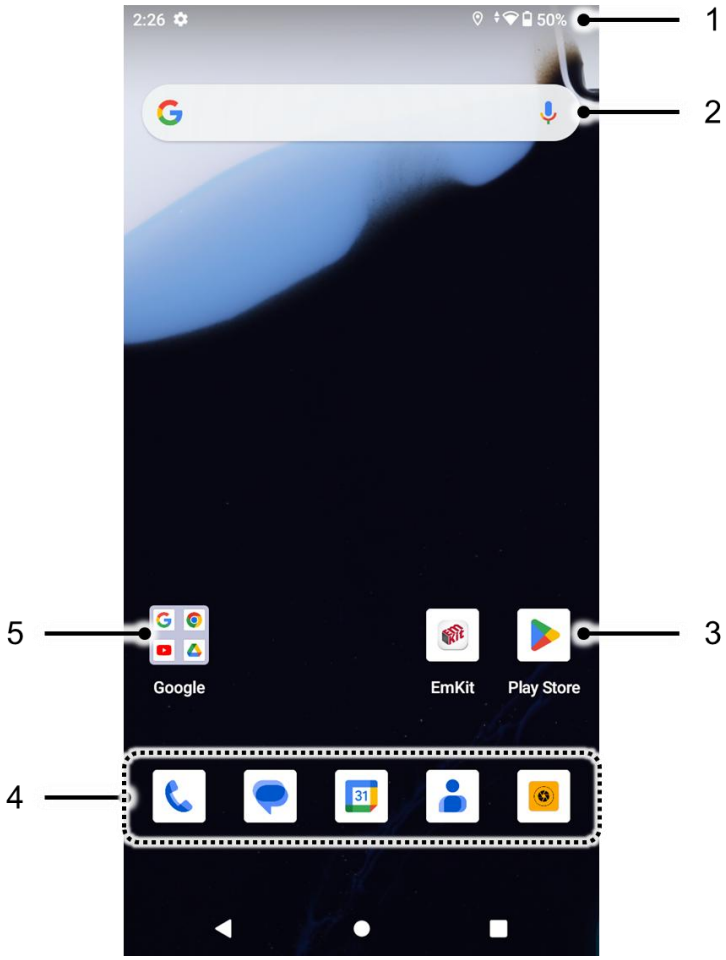
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Learning the Basics

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

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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

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Learning the Basics

Notification icons

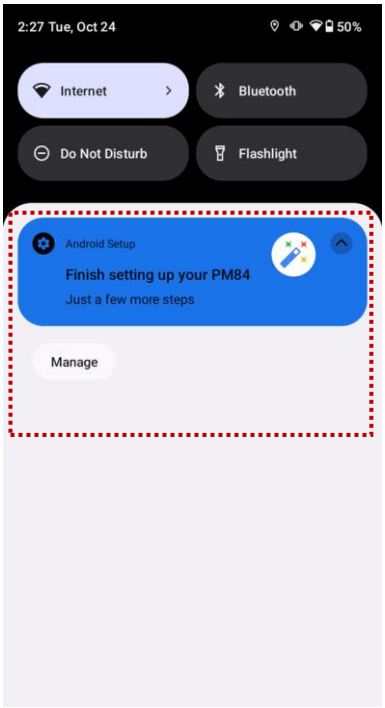
Icon	Description	Icon	Description
	Missed call		New SMS or MMS message
	New Email		Connected to VPN network
	Upcoming event		Other input method available
	File uploaded		File downloaded
	File copied		OTG device connected
	There are more notifications		

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



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Learning the Basics

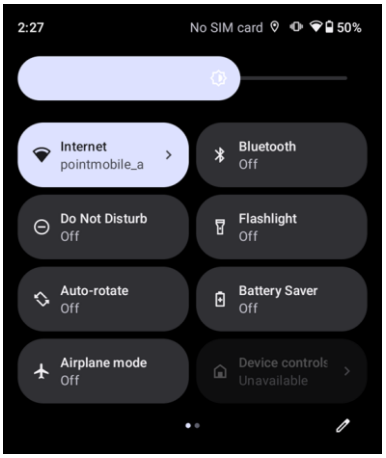
Quick setting panel

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.

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Learning the Basics

Apps & Widget

App folder

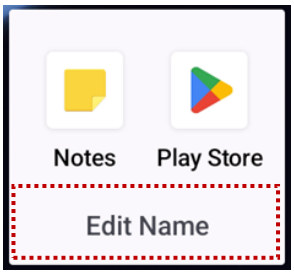
To create the app folder, long-press an app icon and drag it to another app icon.

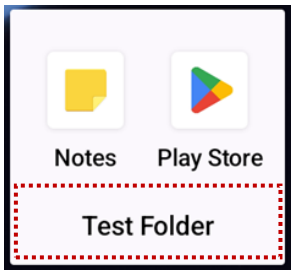
Figure 27 Create app folder



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

Figure 28 Change app folder name





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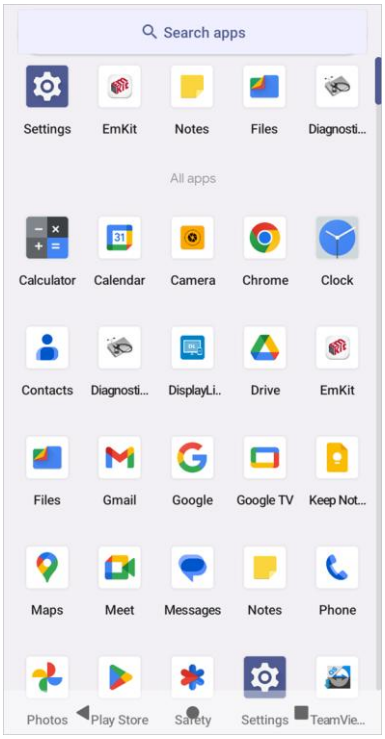
Learning the Basics

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

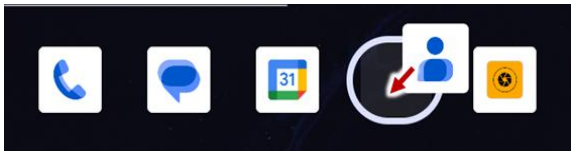


Favorites tray

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



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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



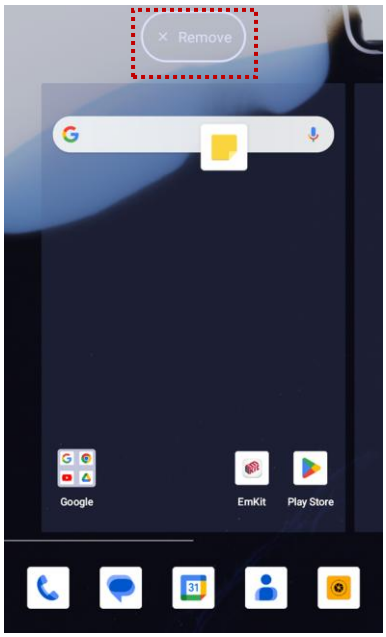
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Learning the Basics

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



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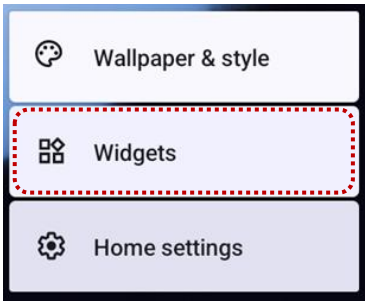
Learning the Basics

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.

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Learning the Basics

Call

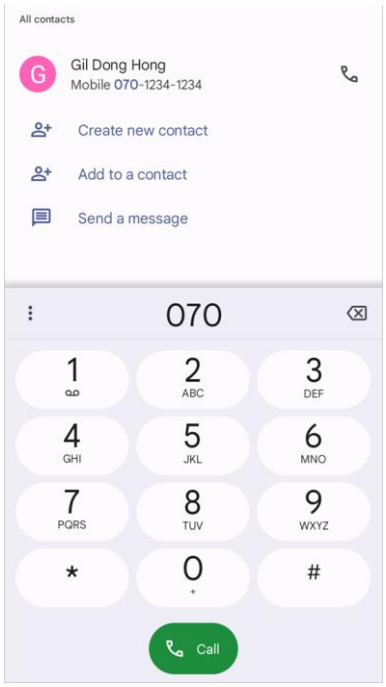
Note: *Calling is only available on LTE SKU (SKU3 ~4). And it requires a SIM card.*

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



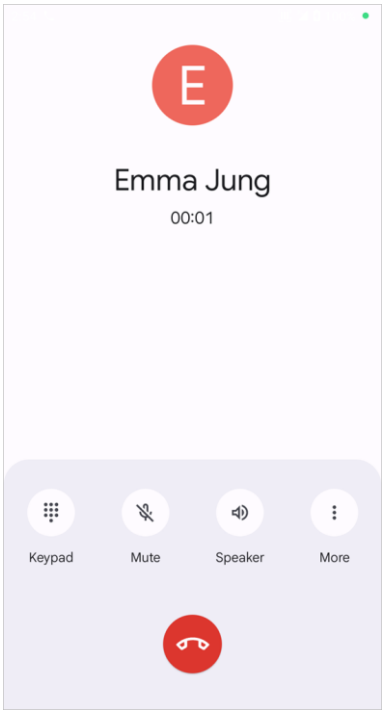
4. Tap Call or next to a searched number to make a call.

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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

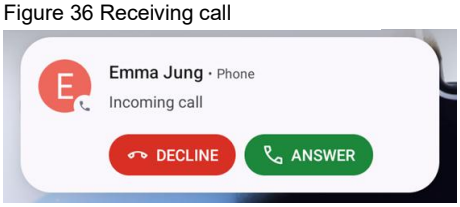
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Learning the Basics

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



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Learning the Basics

Contacts

Add a contact

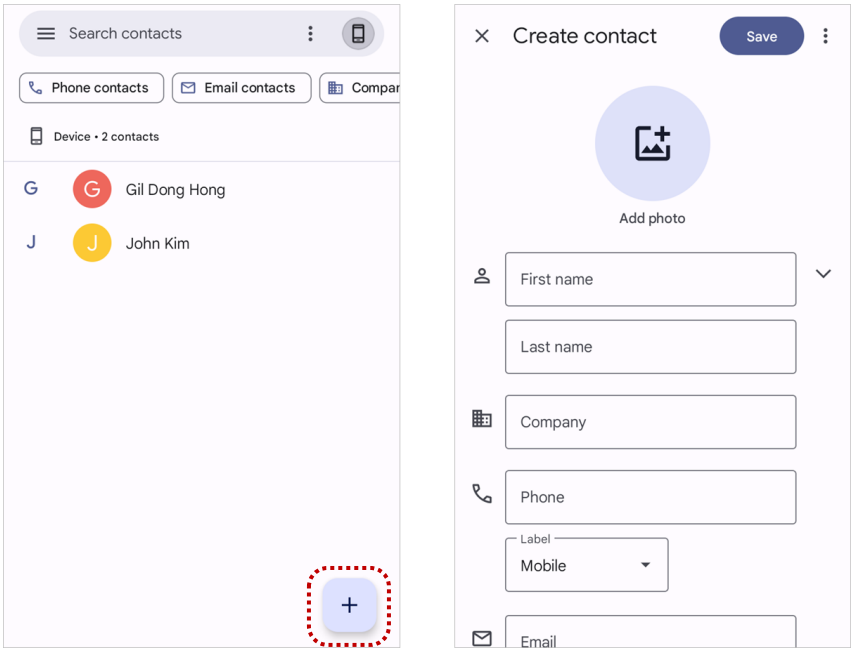
Add a contact via dialer

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.

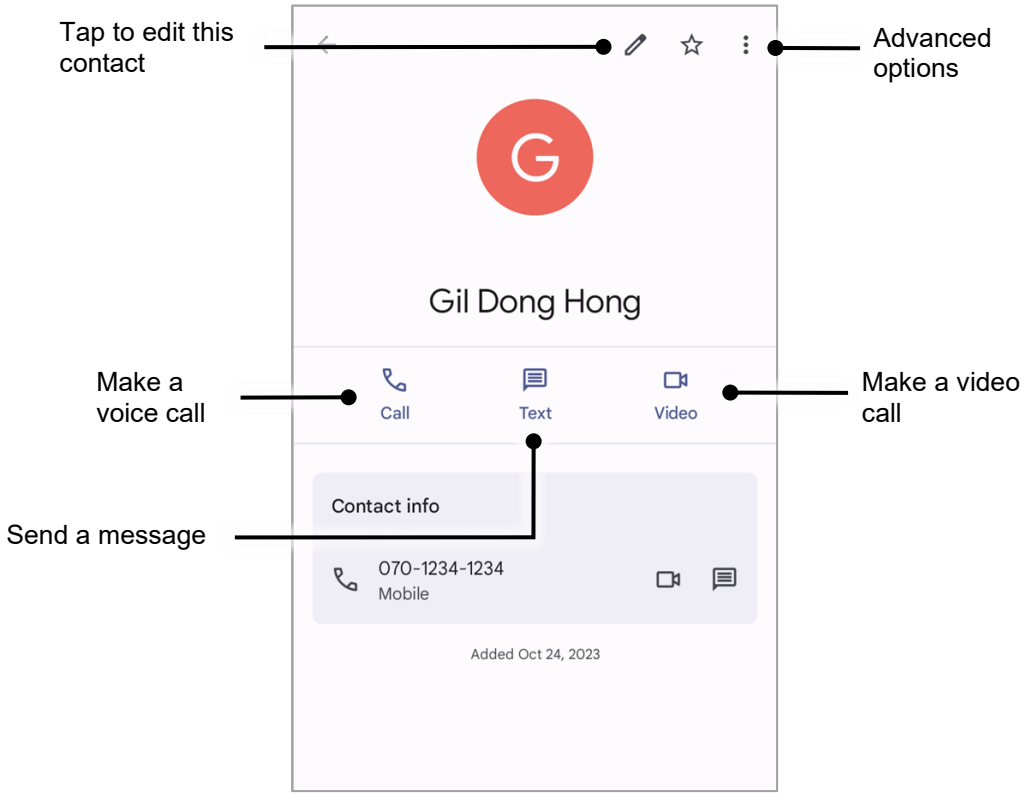
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Learning the Basics

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



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Learning the Basics

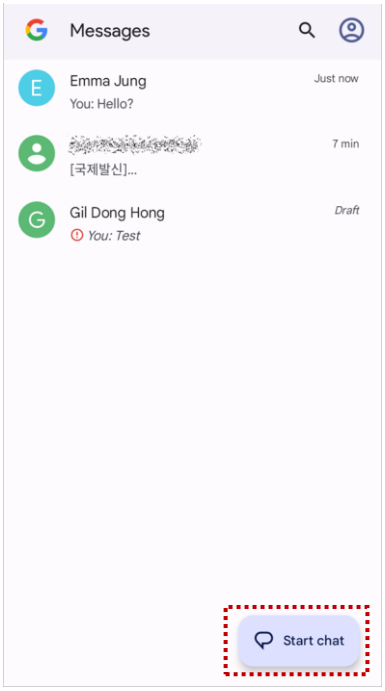
Message

Note: *Message feature is only available on LTE SKU (SKU3 ~ 4). 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



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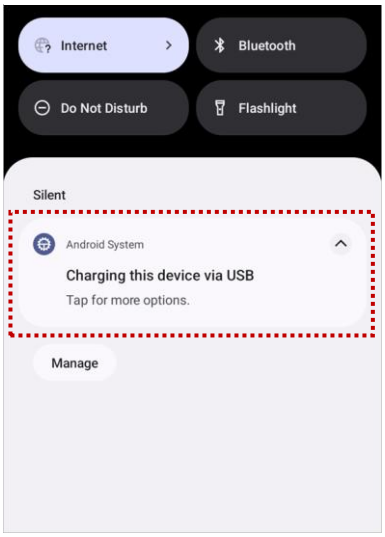
Learning the Basics

MTP Connection with PC

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

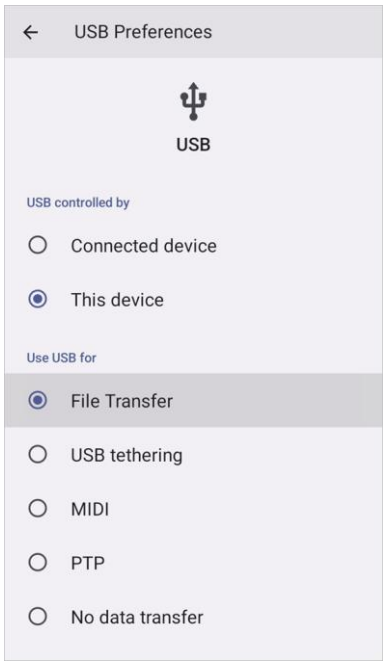
1. Drag down Status bar and tap **Android System** notification to change USB preference option.

Figure 42 USB connection notification



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

Figure 43 USB Preferences

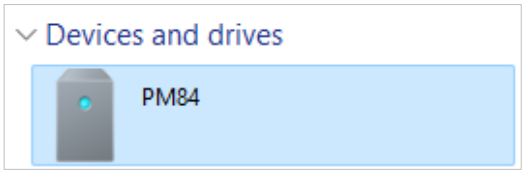


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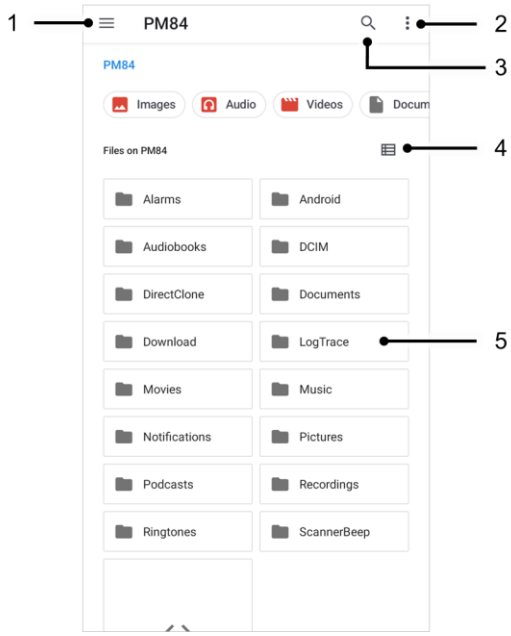
3. Now the PC can recognize the connected device. Find the PM84P device from the PC's file explorer.

Figure 44 File explorer on PC



Manage the Files

Figure 45 FileExplorer main screen



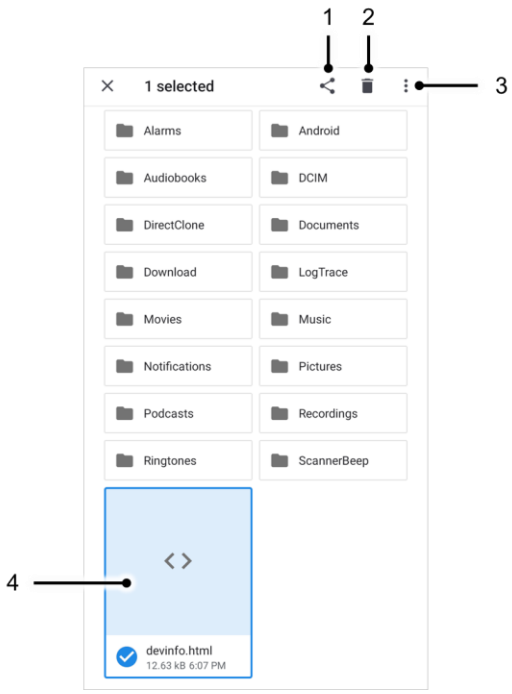
No	Description
1	Select a media file type or storage
2	Open the advanced option – Create a new window or folder, Select all files and folders, etc.
3	Search a file
4	Change the view of file list
5	Tap a file or folder to open. Or long-press a file or folder to select

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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

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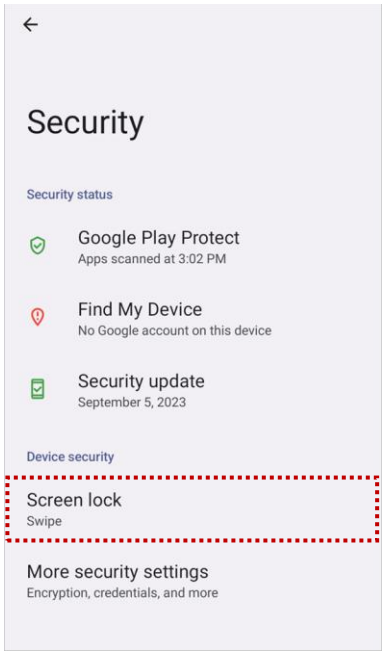
Learning the Basics

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)

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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%)

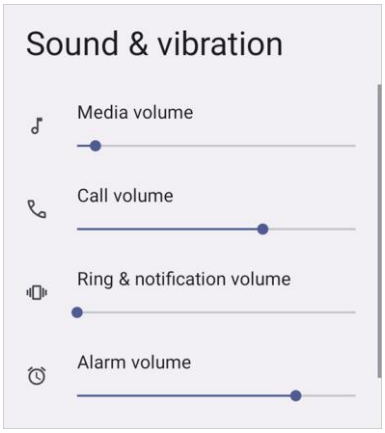


Warning: *Using high brightness levels for long periods may cause eye strain and increase battery consumption.*

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.*

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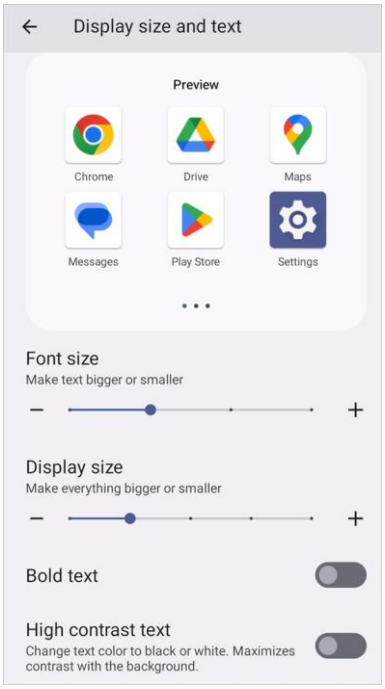
Learning the Basics

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



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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.

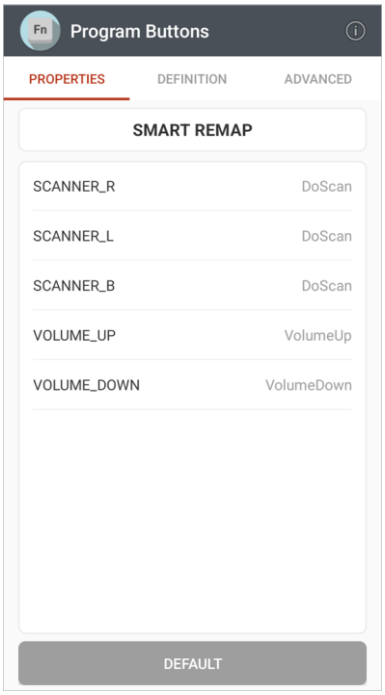
The screenshot image will be saved to **Pictures > Screenshots** folder in the internal storage.

Program Buttons

Most buttons on the PM84P 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.*

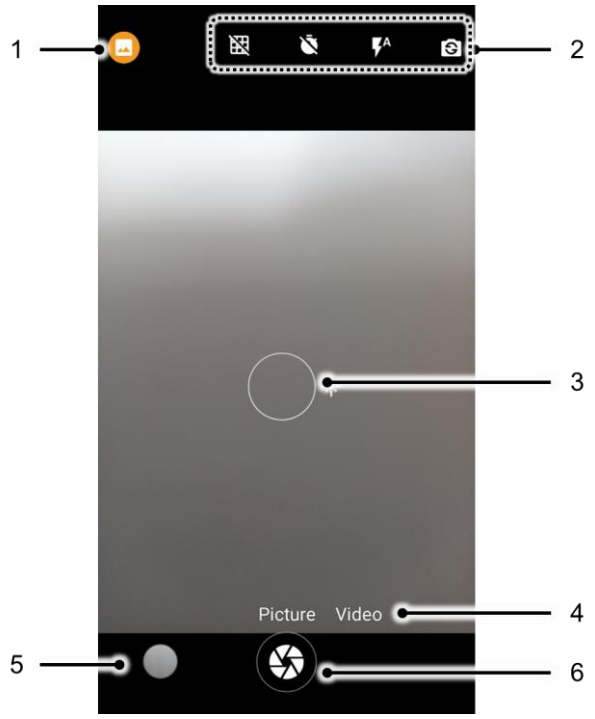
3. Choose a behavior you want to use among the tabs.
4. Tap **APPLY**.

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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

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Scanner

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

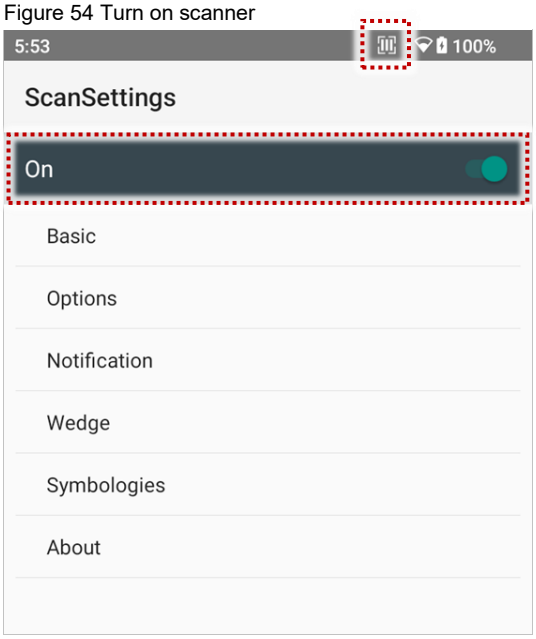
Turn on / off the Scanner

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



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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.

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

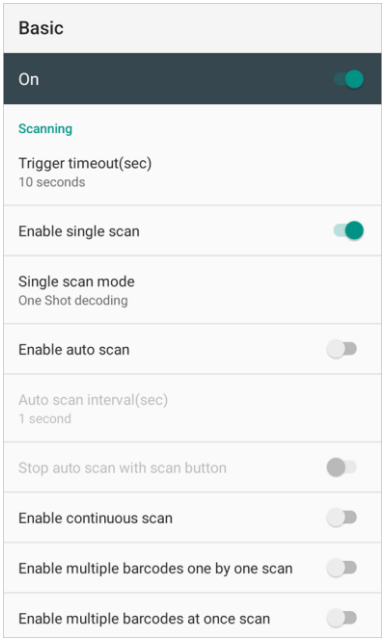
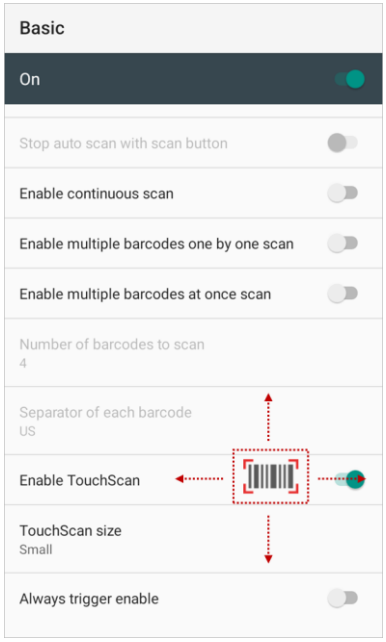


Figure 56 ScanSettings - TouchScan



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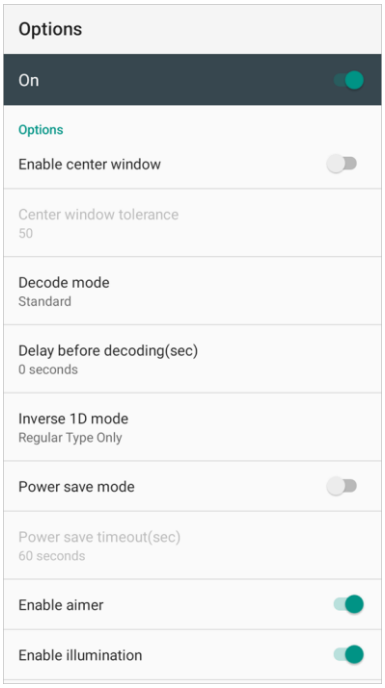
Scanner

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



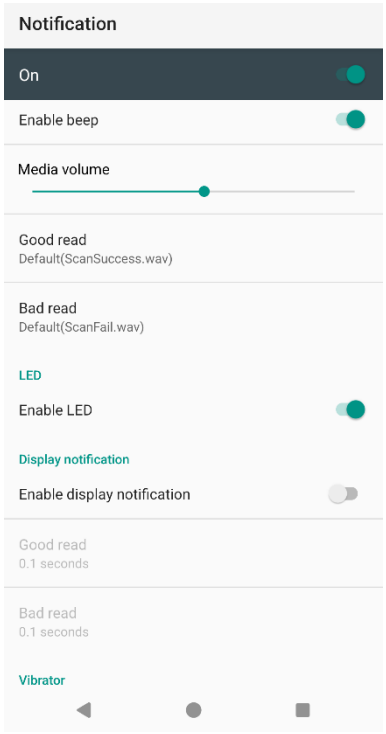
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Scanner

Notification

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

Figure 58 ScanSettings - Notification



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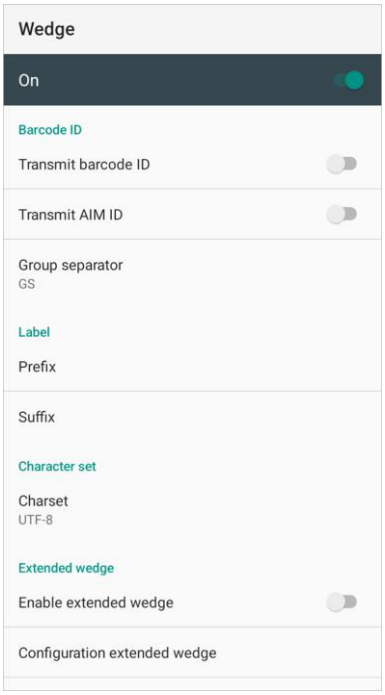
Scanner

Wedge

Set below items in Wedge settings

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

Figure 59 ScanSettings - Wedge



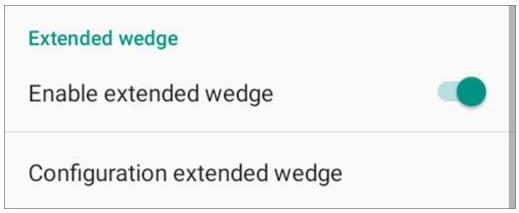
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Scanner

Extended wedge

PM84P 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**.

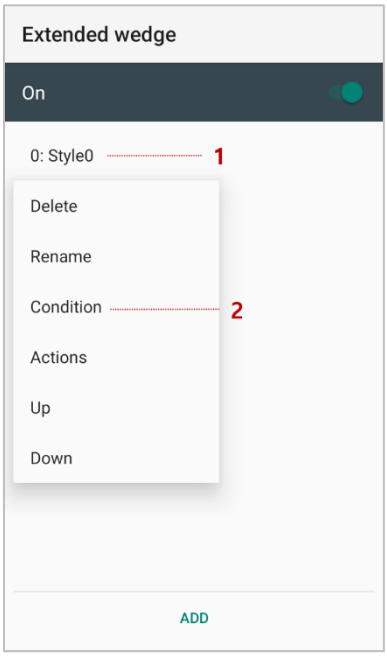
Figure 60 ScanSettings - Extended wedge



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

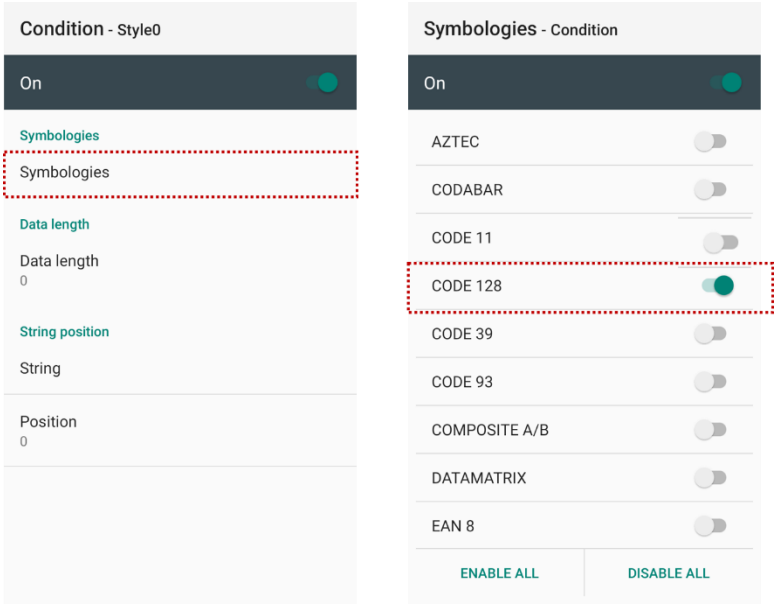


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Scanner

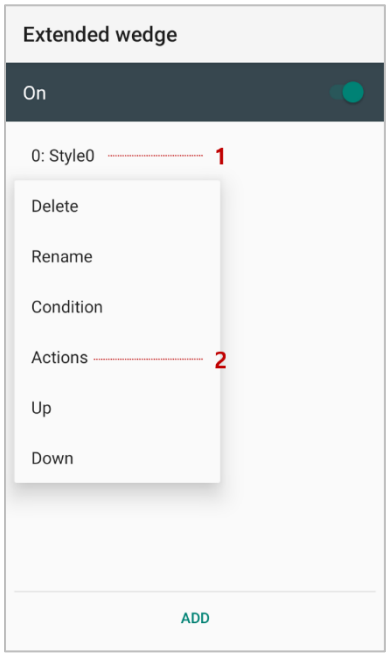
2. Tap **Symbologies** and select **CODE128** among the symbologies.

Figure 62 Extended wedge example_2



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

Figure 63 Extended wedge example_3

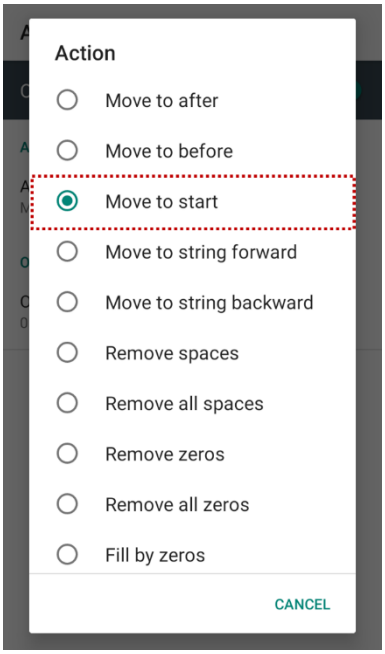


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Scanner

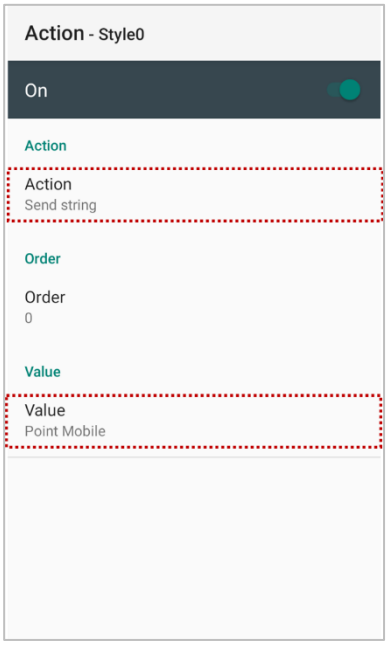
4. Tap **ADD** and select **Move to start** to point the start of the decoded data.

Figure 64 Extended wedge example_4



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

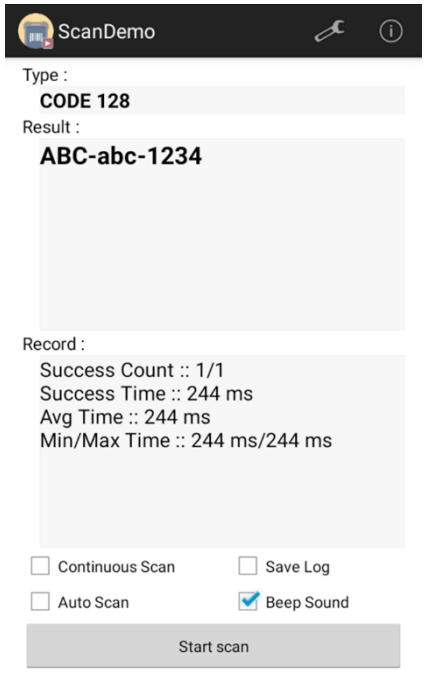
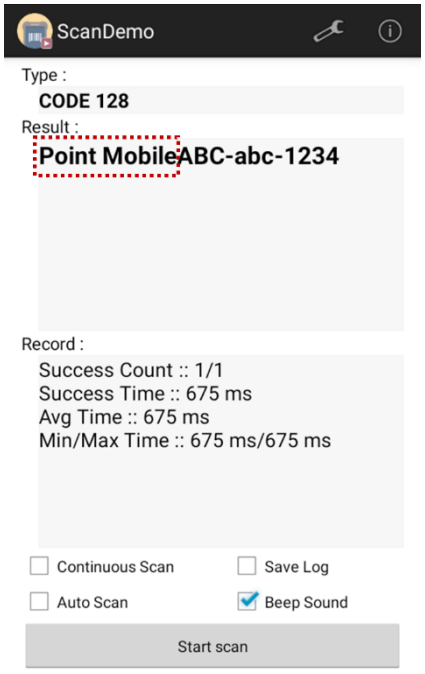
Figure 65 Extended wedge example_5



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Scanner

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

Before	After
	

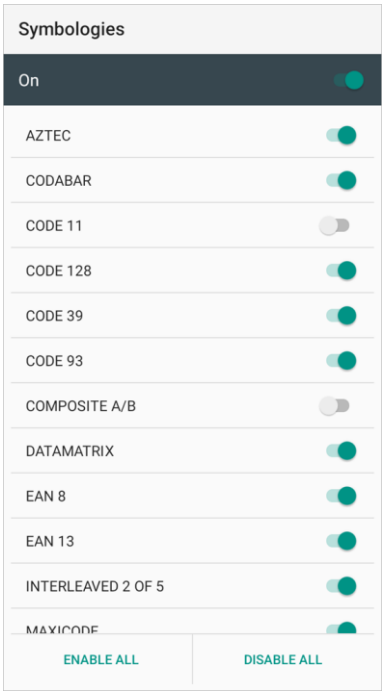
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Scanner

Symbologies

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

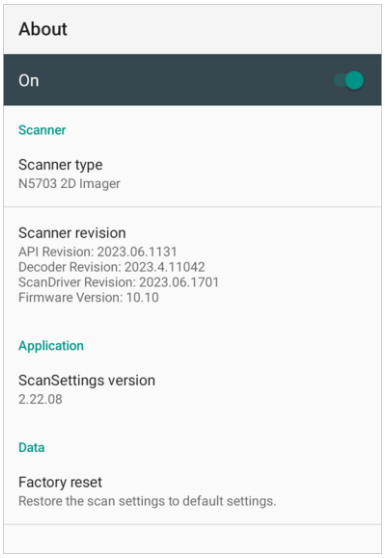
Figure 66 ScanSettings - Symbologies



About

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

Figure 67 ScanSettings - About



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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.

S0703 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)



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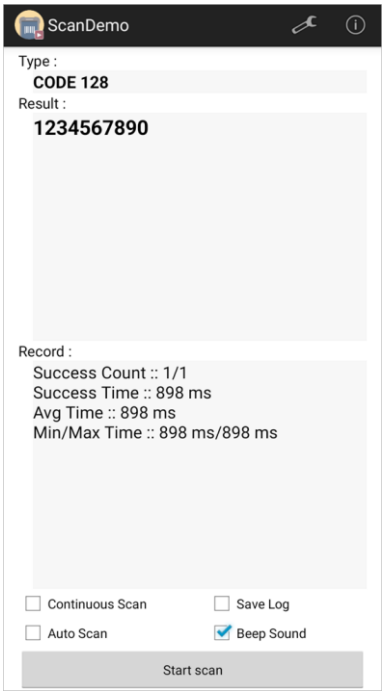
Scanner

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



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Wireless

Mobile Network

Note: *Mobile network is supported on PM84P LTE SKU (SKU 3 ~ 4) 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.

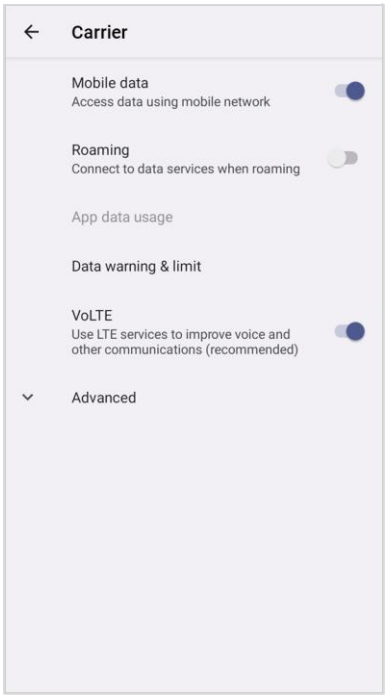
After inserting the SIM card, reboot the device. When network is connected, a network icon will be appeared on the status bar.

Figure 70 Mobile network icon



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

Figure 71 Mobile network setting



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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



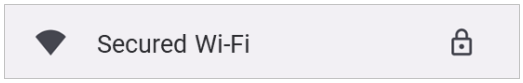
Note: *There are Open Wi-Fi network and Secured Wi-Fi network. You can tell those apart by lock icon ( ) in the nearby Wi-Fi list.*

To connect the secured Wi-Fi network, you need to enter the password.

Figure 73 Open Wi-Fi Network

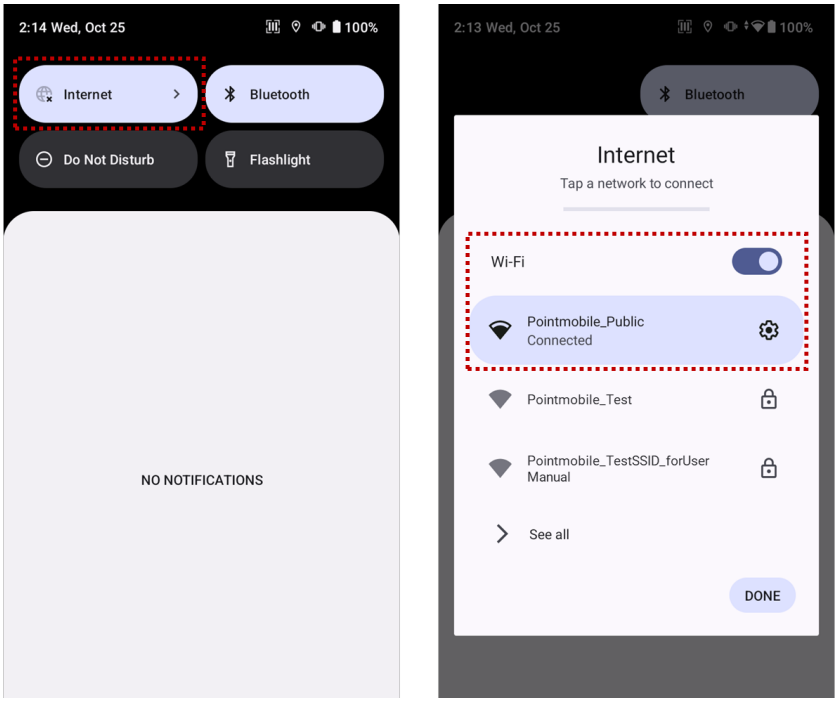


Figure 74 Secured Wi-Fi Network



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



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Wireless

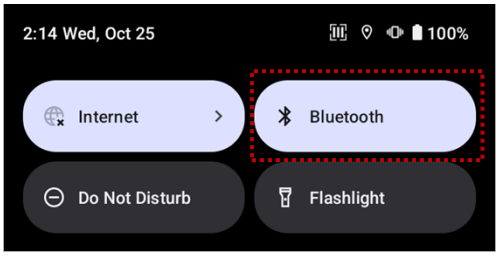
Bluetooth

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



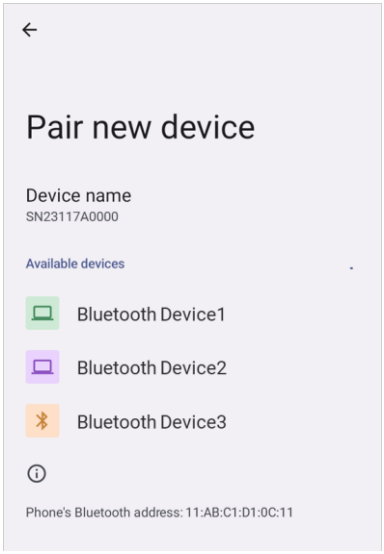
- Go to **Settings** > **Connected devices** > **Pair new device**

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



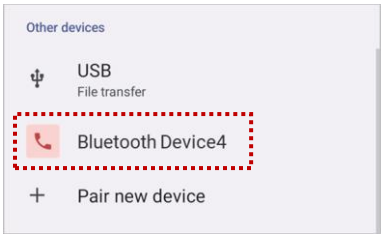
4. Follow instructions on the screen (Pairing code or pairing confirmation dialog) and tap **PAIR.**

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Wireless

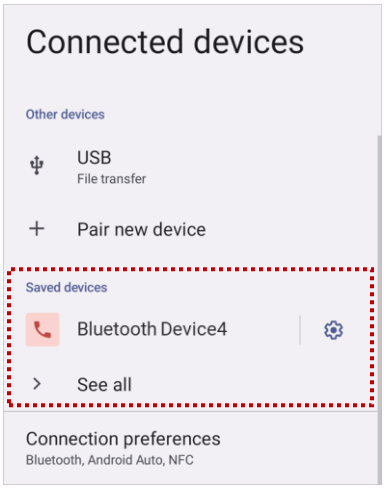
5. When the connection is succeeded, the connected device name is listed under the **Other devices** list.

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

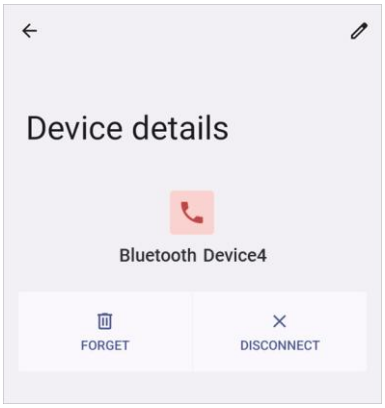


Unpair and Disconnect

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



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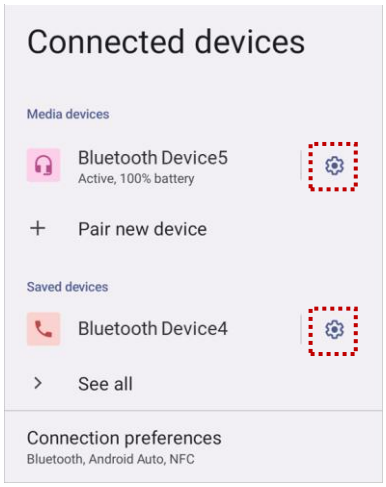
Wireless

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)

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Wireless

NFC

PM84P'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 PM84P NFC tapping area

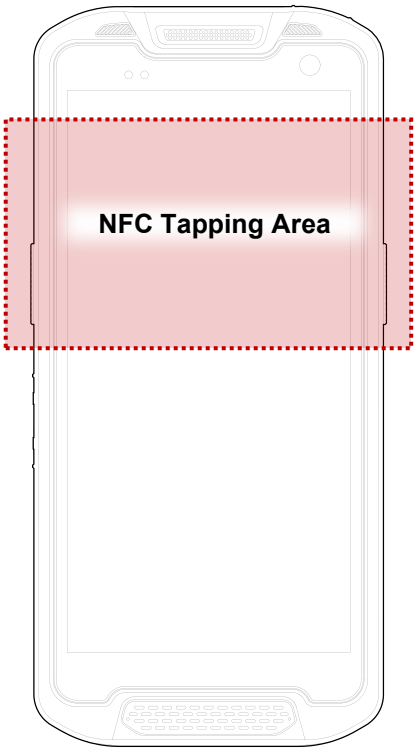
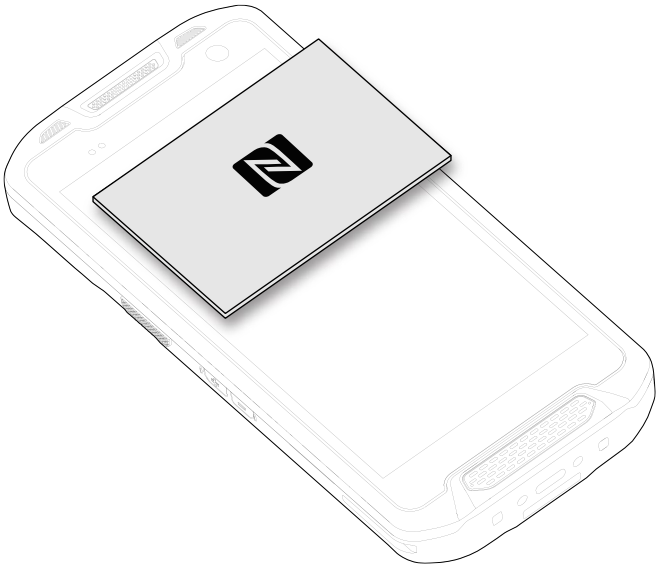


Figure 83 PM84 NFC tapping



RFID

PM84P can get RFID tag data through RF88 (sold separately). PM84P 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 PM84P onto the RFID reader, a PM84P-dedicated sled bracket must be assembled on the RF88.

Note: *Find more detail in RF88 User manual.*

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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 OS 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 OS 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)

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System Maintenance

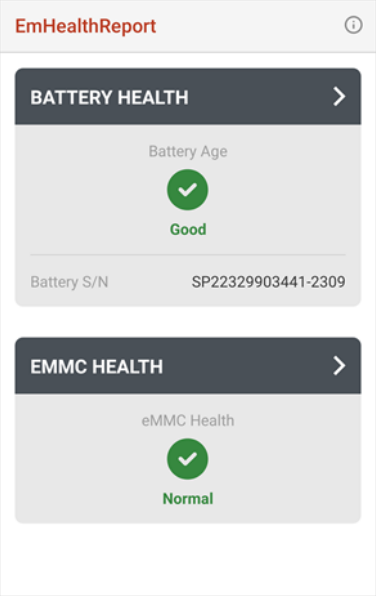
Check Device Health

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

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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.

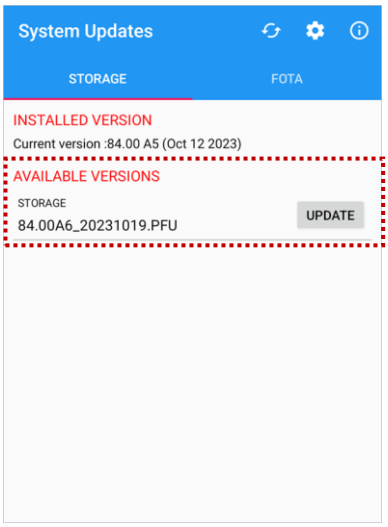
Caution: *Please backup your data before starting the update process.*

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.*

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System Maintenance

OS update via OTG port

PM86 supports the USB OTG feature.

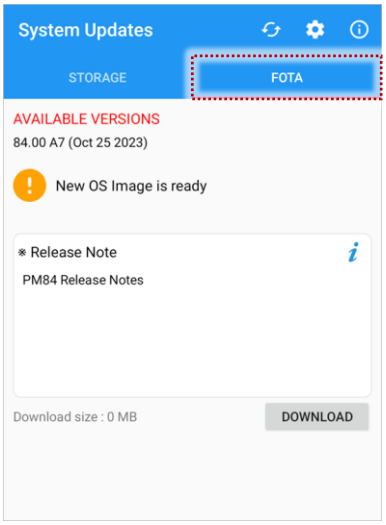
1. Prepare a formatted USB flash drive for OS update.
2. Copy an OS image file to the root folder of the flash drive.
3. Connect the flash driver to the PM84P.
4. Go to **Settings** > **System** > **System Update.**
5. Check if the OS image file shows up under **AVAILABLE VERSIONS.**
6. Tap **UPDATE** to start the update process.

OS update via FOTA

If PM84P 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



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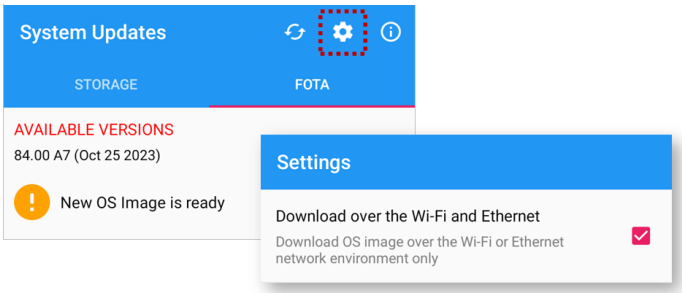
System Maintenance

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.

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



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System Maintenance

Factory Data Reset

When the PM84P works abnormal or there is a need to reset the device, follow the steps below to perform a factory data reset.

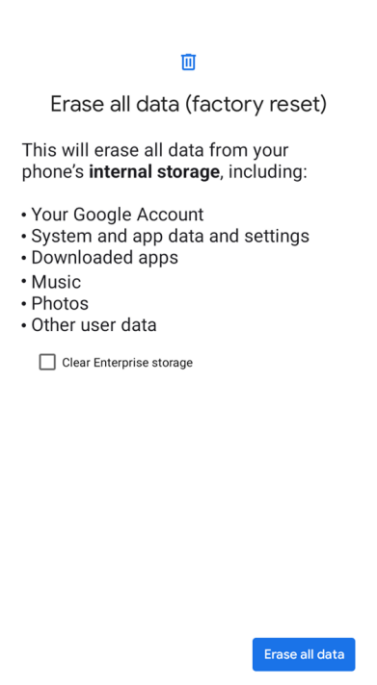
***Warning**: Factory data reset will erase all personalized settings and data saved in the device, such as Google Account, apps, user data, etc. And factory data reset cannot undo.*

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

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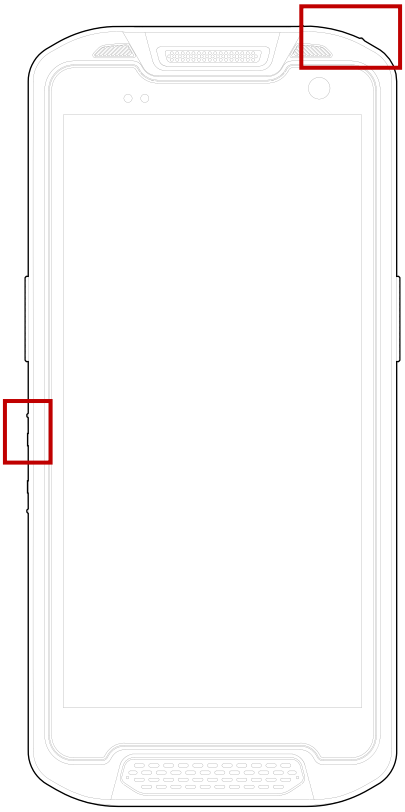
System Maintenance

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.

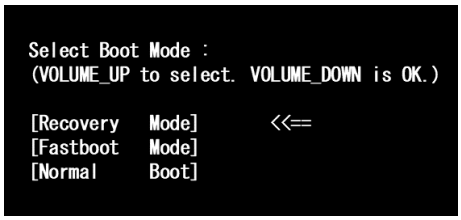
1. Press and hold **power button** + **Volume Up** buttons simultaneously when PM84P is turned off.

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

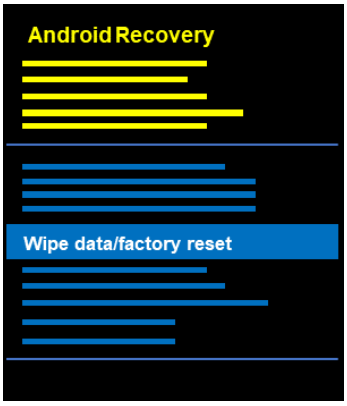


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System Maintenance

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.**

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Accessories

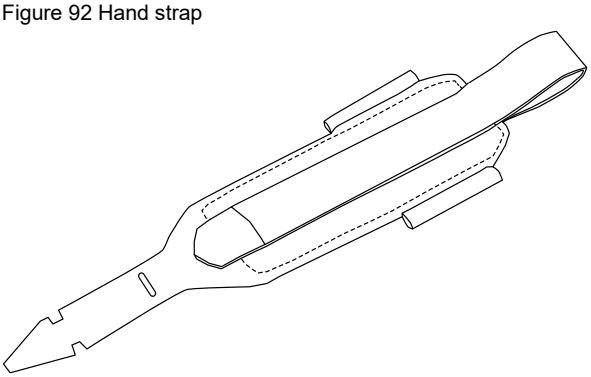
PM84P supports below accessories. All accessories except hand strap are sold separately.

Category	Accessory Name	Usage
Hand strap	Hand strap	Carries PM84P easily
Protection case	Rugged boot	Protects PM84P 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 PM84P and one PM84P battery Provide USB type C port or ethernet port
	4SC (4 Slot Cradle)	Charges up to 4 units of PM84P at the same time
	4SBC (4 Slot Battery Cradle) / 4SCBL (4 Slot Battery Cradle Light)	Charges up to 4 pieces of PM84P's batteries at the same time

Hand Strap

The hand strap is enclosed in the PM84P standard package. Attach the strap and you can hold the device more firmly.

Figure 92 Hand strap



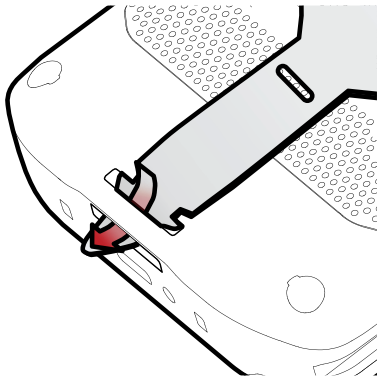
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Accessories

Attach hand strap

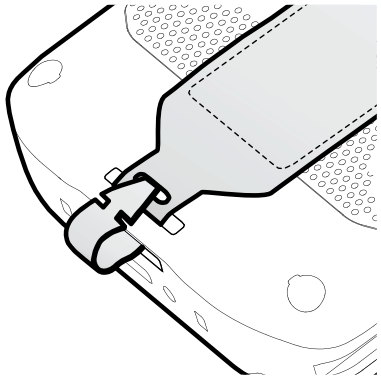
1. Using the arrow-like side of the strap through the hand strap hole on the bottom.

Figure 93 Attaching hand strap - 1



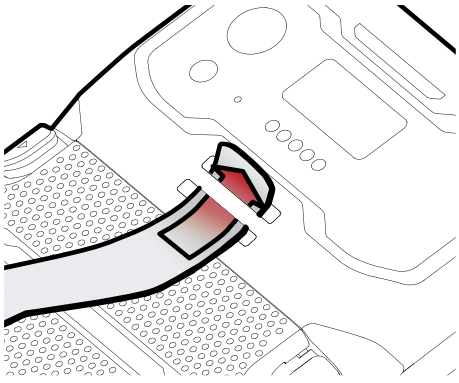
2. Insert the arrowhead into the small hole of the hand strap and pass it through the neck.

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

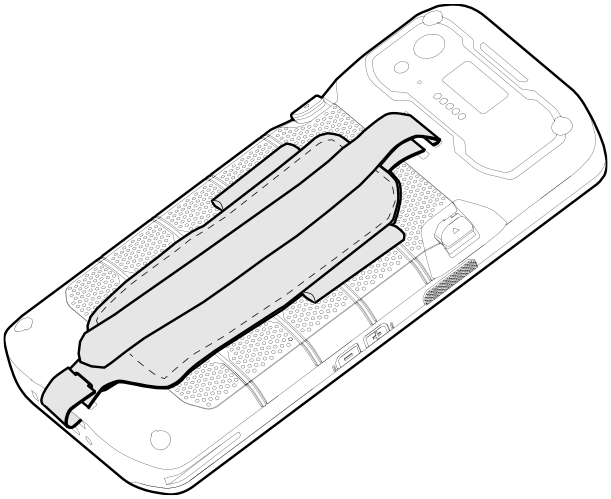


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Accessories

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

Figure 96 Hand strap attached



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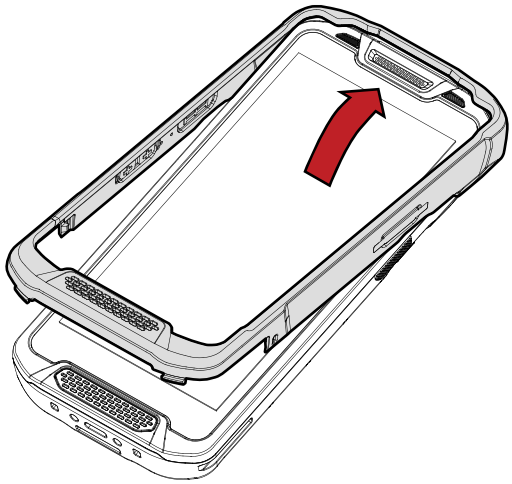
Accessories

Rugged Boot

To protect the PM84P from damage such as drop or tumble, attach a rugged boot to PM84P.

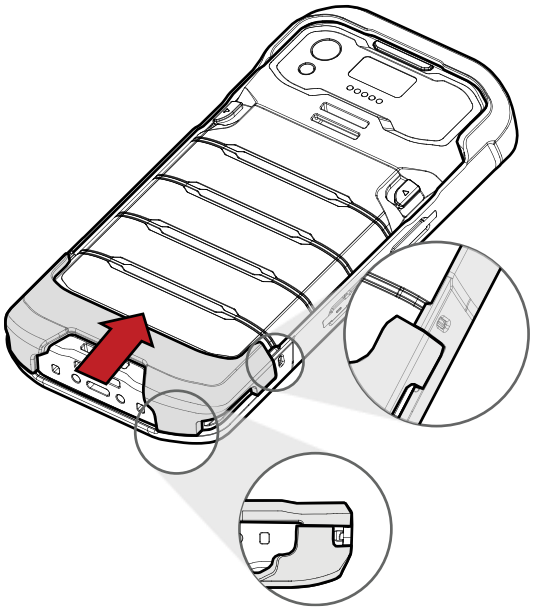
1. Install the top part of the rugged boot first. Insert the device from the back of the rugged boot.

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



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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.

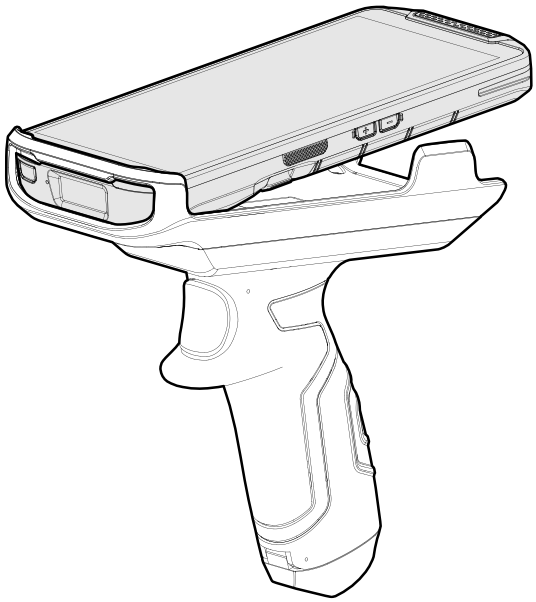
Figure 99 PM84P/95 Gun handle



Attach gun handle

1. Put the PM84P'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



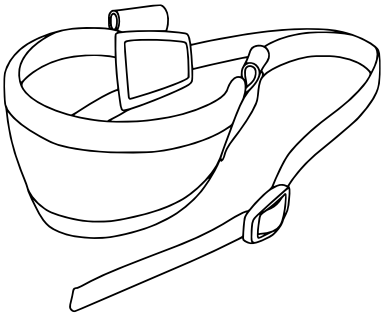
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Accessories

Attach gun handle's hand strap

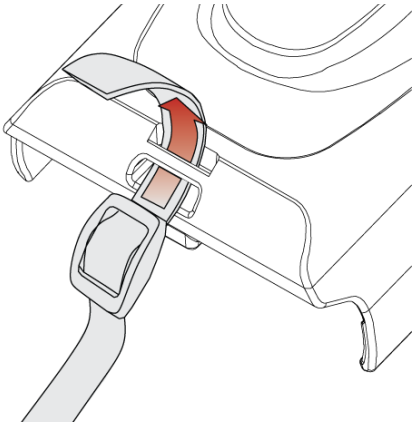
A hand strap is enclosed in the gun handle package. Attach the strap and carry the device more comfortably.

Figure 101 Gun handle - hand strap



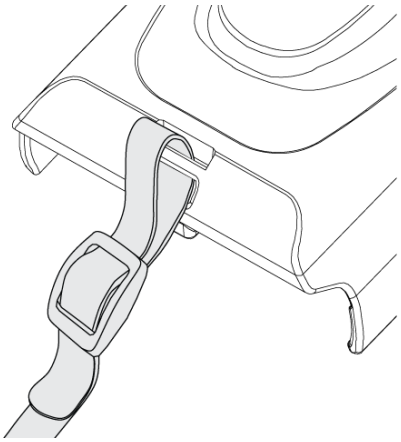
1. Thread the strap through the hole on the bottom side of the retention fixture

   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



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Accessories

RF88 (RFID Sled)

PM84P can get RFID tag data through RF88 (sold separately). PM84P 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 PM84P onto the RFID reader, a PM84P-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.

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Accessories

Charging Cradles

Note: *All cradles are compatible with PM95.*

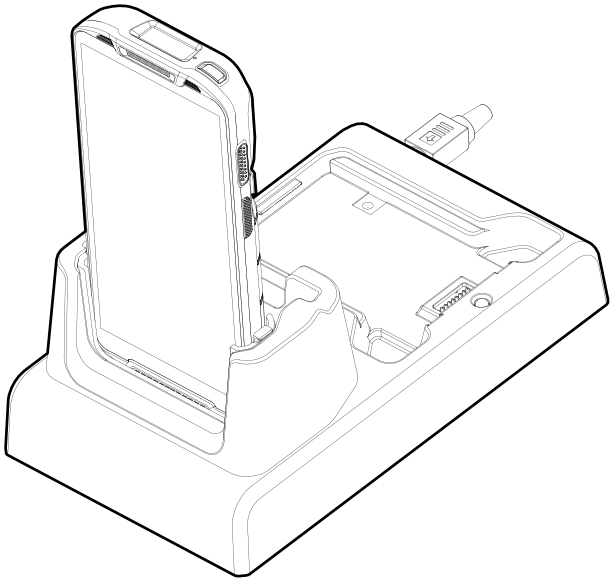
Single Slot (Ethernet) Cradle (SSC / SEC)

SSC/SEC can charge the followings.

- With Cradle cup
  - PM84P only
- Without Cradle cup
  - PM84P with gun handle mounted
  - PM84P with RF88 (RFID reader) mounted
  - PM84P 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/PM84P SSC / SEC Quick start guide.

Figure 104 PM84P/PM95 SSC/SEC



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Accessories

4SC (4 Slot Cradle)

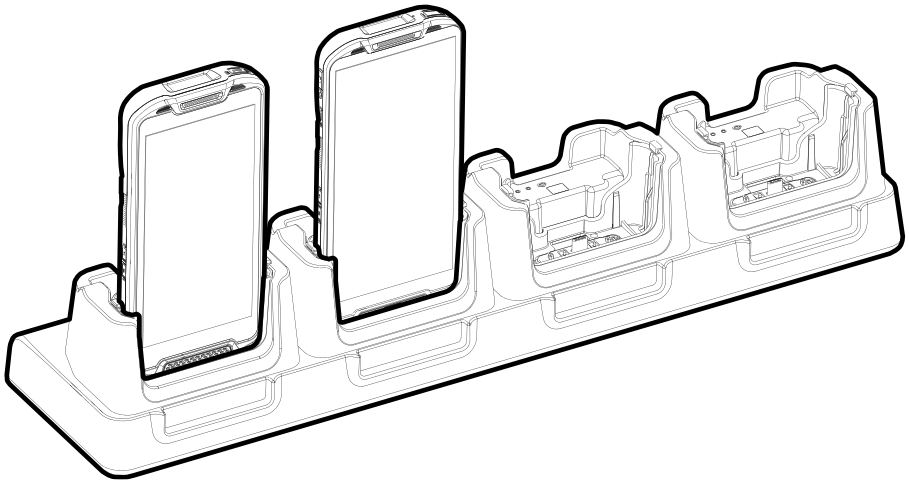
4SC has 4 device slots so it can charge up to four units of PM84P simultaneously. The chargeable device combination is as follows.

- With Cradle cup
  - PM84P only
- Without Cradle cup
  - PM84P with gun handle mounted
  - PM84P with RF88 (RFID reader) mounted (but RF88 will not be charged)
  - PM84P 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/PM84P 4SC Quick start guide.

Note: *PM84P with RF88 mounted can be installed on the 4SC, but RF88 will not be charged (Charge PM84P only).*

Figure 105 PM84P/PM95 4SC



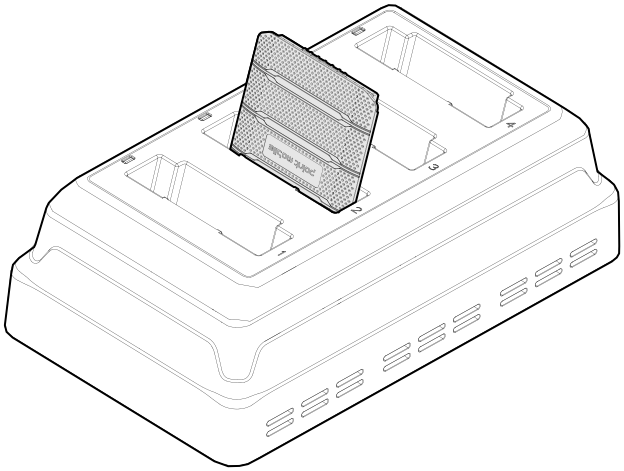
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Accessories

4SBC/ 4SBCL (4 Slot Battery Cradle)

4SBC has 4 battery slots so it can charge up to four pieces of PM84P's battery simultaneously. For more detail, see the PM95/PM84P 4SBC Quick start guide.

Figure 106 PM84P/PM95 4SBC



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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.

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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.

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.*

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Safety Information



Body-worn Operation

This device was tested for typical use with the back of the device kept 0.39 inches (1.0 cm) from the body.

To comply with FCC RF exposure requirements, a minimum separation distance of 0.39 inches (1.0 cm) must be maintained between the user's body and the back of the device.

Any belt-clips, holsters, and similar accessories containing metallic components may not be used.

Avoid the use of accessories that cannot maintain 0.39 inches (1.0 cm) distance between the user's body and the back of the device and have not been tested for compliance with FCC RF exposure limits

This device meets the government's requirements for exposure to radio waves.

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy. The exposure standard for wireless devices employs a unit of measurement known as Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg



PROTECT YOUR HEARING

To prevent possible hearing damage, do not listen at high volume levels for long periods. Exercise caution when holding your device near your ear while the loudspeaker is in use.

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Safety Information

FCC Warning

FCC part 15
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

FCC 6CD:
Transmitters in the 5.925-7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

IC Warning

ISED Compliance Statements
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) L' appareil ne doit pas produire de brouillage;
(2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

ISED RF Exposure :
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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Safety Information

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the head & body, with 1.0cm separation.
Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.
Le dispositif portatif est conçu pour répondre aux exigences d'exposition aux ondes radio établie par le développement énergétique DURABLE. Ces exigences un SAR limite de 1,6 W/kg en moyenne pour un gramme de tissu. La valeur SAR la plus élevée signalée en vertu de cette norme lors de la certification de produit à utiliser lorsqu'il est correctement porté sur le Tête et corps, avec une séparation de 1.0cm.

ISED 5G WIFI Waring:ss
LE-LAN devices are restricted to indoor operation only in the band 5150-5250 MHz.
Les appareils LE-LAN sont limités à fonctionner à l'intérieur uniquement dans la bande 5150-5250 MHz.

ISED 6G WIFI Waring:
• Devices shall not be used for control of or communications with unmanned aircraft systems.
• Devices shall not be used on oil platforms.
• Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).
• Devices shall not be used on automobiles.
• Devices shall not be used on trains.
• Devices shall not be used on maritime vessels.
• Devices shall not have a direct connection to the Internet
• Devices shall use a contention-based protocol at all times
• Devices shall be completely enclosed by walls and a ceiling while under the control of a low-power indoor access point or an indoor subordinate device

• Les appareils ne doivent pas être utilisés pour le contrôle ou la communication avec des systèmes d'aéronefs sans pilote.
• Les appareils ne doivent pas être utilisés sur les plates-formes pétrolières.
• Les appareils ne doivent pas être utilisés à bord des avions, à l'exception des points d'accès intérieurs à faible consommation, des appareils subordonnés intérieurs, des appareils clients à faible consommation et des appareils à très faible consommation fonctionnant dans la bande 5 925-6 425 MHz, qui peuvent être utilisés sur de grands aéronefs tel que défini dans le Canadian Aviation Regulations, alors qu'il vole à plus de 3 048 mètres (10 000 pieds).
• Les appareils ne doivent pas être utilisés sur les automobiles.
• Les appareils ne doivent pas être utilisés dans les trains.
• Les appareils ne doivent pas être utilisés sur les navires maritimes.
• Les appareils ne doivent pas être connectés directement à Internet.
• Les appareils doivent constamment utiliser un protocole basé sur la contention.
• Les appareils doivent être entièrement enfermés entre des murs et un plafond lorsqu'ils sont contrôlés par un point d'accès intérieur basse consommation ou un dispositif subordonné intérieur.

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Safety Information

CE Warning

RED Declaration of Conformity

POINT MOBILE Co., Ltd. hereby declares that this GSM / GPRS / EDGE / UMTS / LTE Digital Mobile Computer with Bluetooth and Wi-Fi PM68 is in compliance with the essential requirements and other relevant provisions of the RE Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.pointmobile.com

RF Exposure Information (SAR)

This device is in compliance with Specific Absorption Rate (SAR) limits for general population/uncontrolled exposure (Localized 10-gram SAR for head and trunk, limit: 2.0W/kg) specified in Council Recommendation 1999/519/EC, ICNIRP Guidelines, and RED (Directive 2014/53/EU).

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands and placed in positions that simulate RF exposure during use against the head with no separation and near the body with a separation of 5 mm.

SAR compliance for body operation is based on a separation distance of 5 mm between the unit and the human body. This device should be carried at least 5 mm away from the body to ensure RF exposure level is compliant or lower than the reported level. When attaching the device near the body, a belt clip or holster should be used which does not contain metallic components and allows a separation of at least 5 mm to be maintained between the device and the body. RF exposure compliance was not tested or certified with any accessory containing metal worn on the body, and use of such an accessory should be avoided.

Certification Information (Highest SAR)

- SAR 10 g limit: 2.0 W/Kg,
- SAR Value: Head: 0.994 W/Kg, Body: 1.965W/Kg (5 mm distance).

Legal Information

Observe national and local regulations where the device is used.
This device is restricted to indoor use only when operating in the 5945 to 6425 MHz frequency range in:

CH	SI	SK	IS	AT	BE	BG	HR	CY	CZ	DK
PT	ES	TR	LI	EE	FI	FR	DE	EL	HU	IE
RO	SE	PL	NO	IT	LV	LT	LU	MT	NL	UK(NI)

Frequency Bands and Power

This Mobile Computer offers the following frequency bands in EU areas only and maximum radio-frequency power:

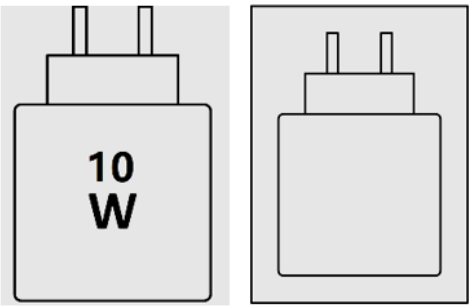
- GSM 900: 35.5 dBm

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Safety Information

- GSM 1800: 32.5 dBm
- WCDMA band 1/8: 25.7 dBm
- LTE band 1/3/5/7/8/20/28/38/40/41 : 25.7 dBm
- Bluetooth: 20 dBm
- Wi-Fi 2.4 GHz band: 20 dBm
- Wi-Fi 5 GHz: 5150 to 5250MHz: 23 dBm, 5250 to 5350 MHz: 20 dBm, 5470 to 5725 MHz: 20 dBm, 5725 to 5850 MHz: 14 dBm
- Wi-Fi 6 GHz: 5945 do 6425 MHz: 23dBm
- NFC: 13.56 MHz < 42 dBuA/m at 10m

Common charger warning



PM84P: The maximum charging power of the product is 10 Watts (5V ⎓ 2A).

E-Label

Users can able to access the FCC/IC/MIC information in 3 steps in device's menu. The actual steps are : → **Settings -> >About device -> Certificates**

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