



For Android™15

Enterprise Mobility

PM84P

User Manual

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

Introduction

PM84P SKUs

The contents of this manual can cover the following SKUs.

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

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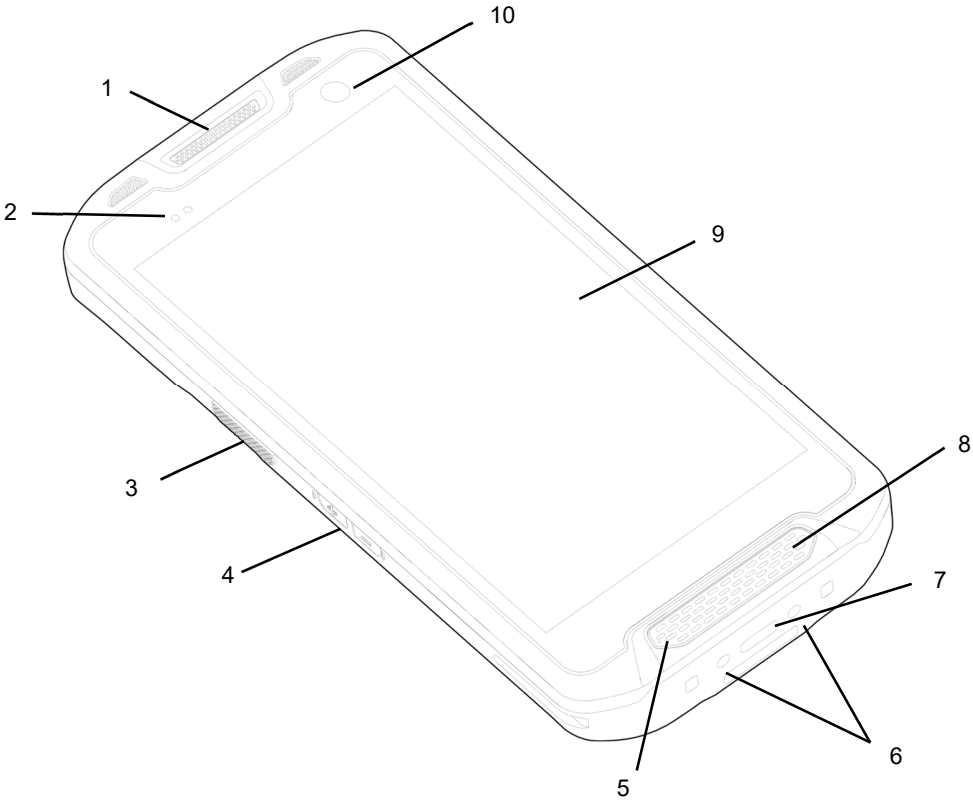
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Getting Started

Device Parts

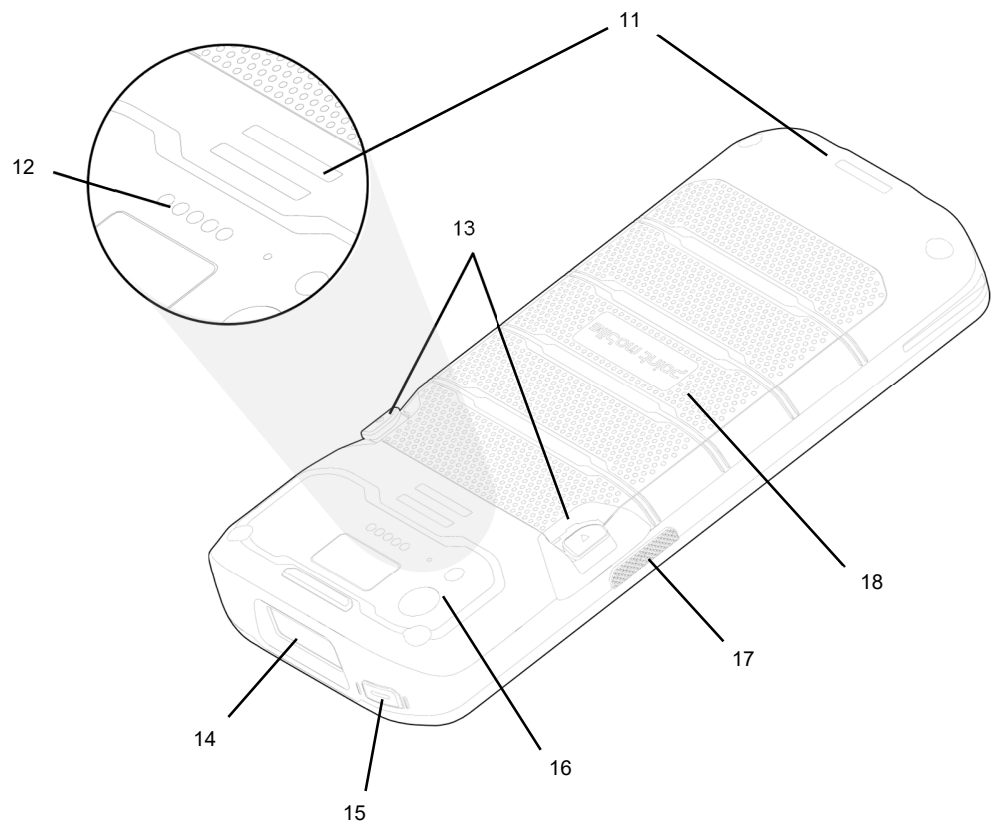
Figure 1 PM84P front + left view



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

Getting Started

Figure 2 PM84P rear + right view

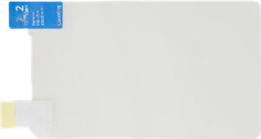


No	Name	Description
11	Hand strap hole (top / bottom)	Mount hand strap
12	Rear I/O connector	Connector for sled type accessories (RF88 or gun handle)
13	Battery release buttons	Press the buttons in to release the battery
14	Scanner	Scan a barcode
15	Power button	Turn on/off the device
16	Rear camera & 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)

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

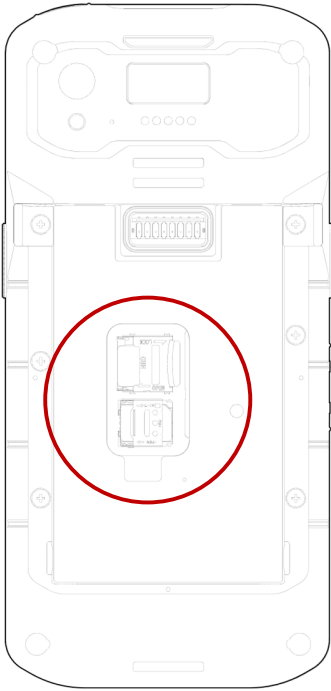
Install SD & SIM Cards

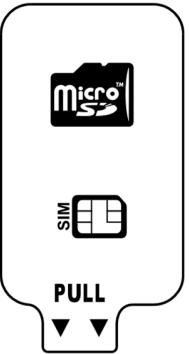
PM84P supports

- 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)
	

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.

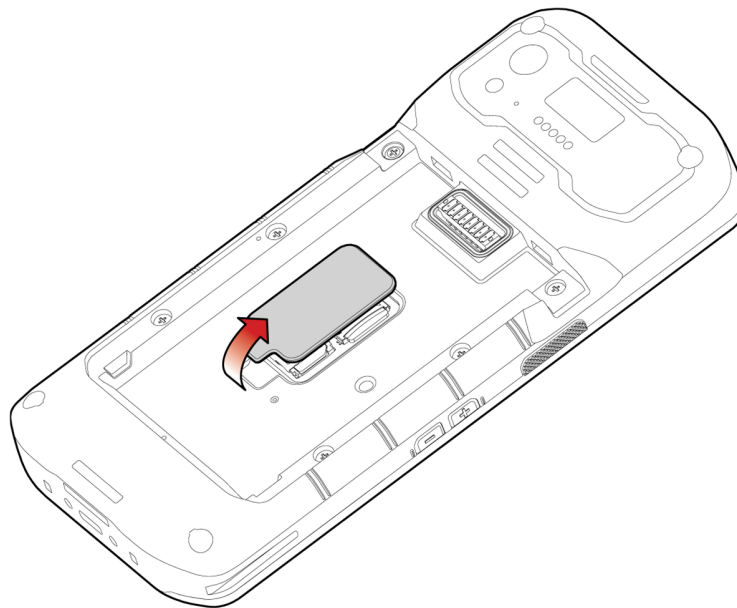
To open the cover, pull it out using the handle on the bottom side.

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

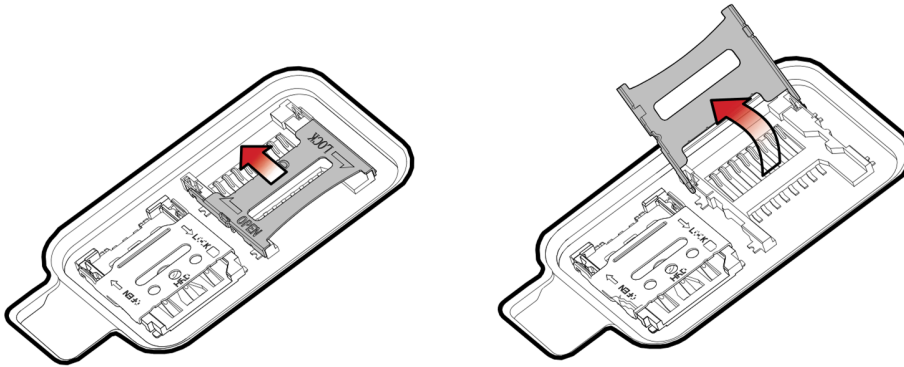


Getting Started

Install SD card

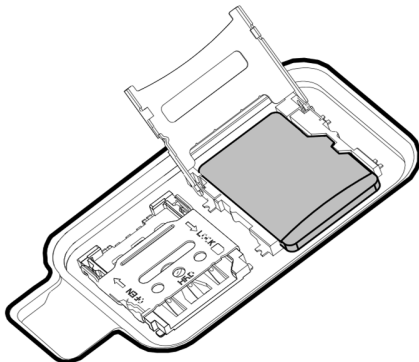
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **left**, and swing upwards to open the holder.

Figure 5 Open SD cardholder



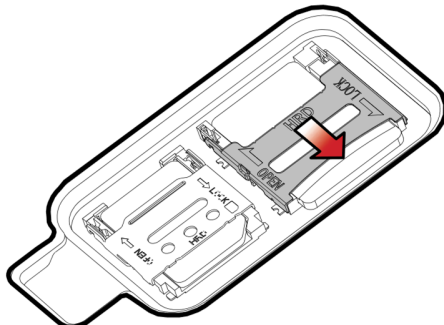
3. Put the SD card you prepared with the contacts facing down.

Figure 6 Place SD card



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

Figure 7 Close SD cardholder



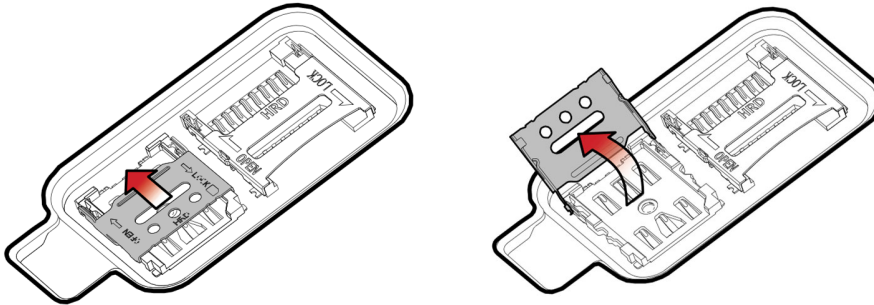
5. Close the card slot cover firmly.

Getting Started

Install SIM card

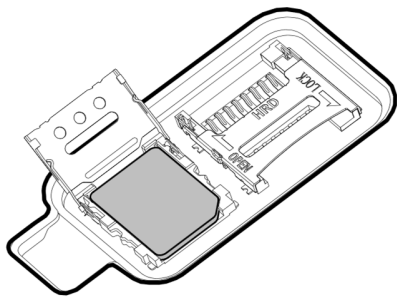
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **left**, and swing upwards to open the holder.

Figure 8 Open SIM cardholder



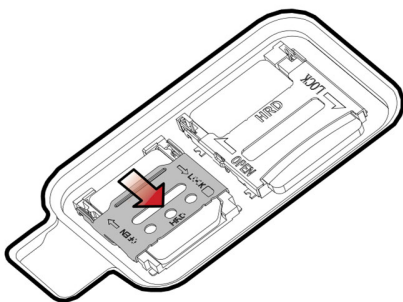
3. Put a nano SIM card you prepared with the contacts facing down.

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

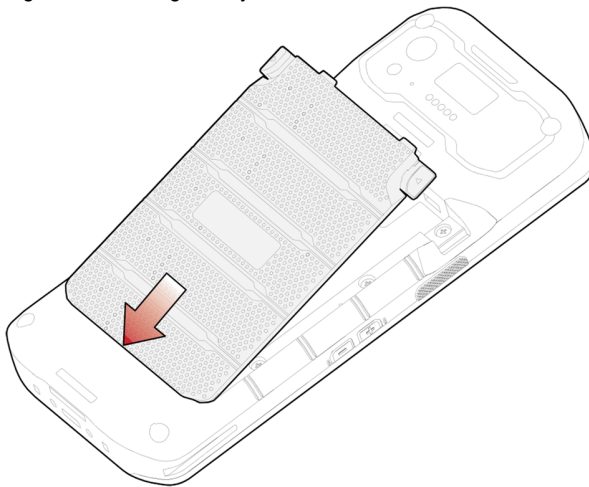
Install the battery



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.

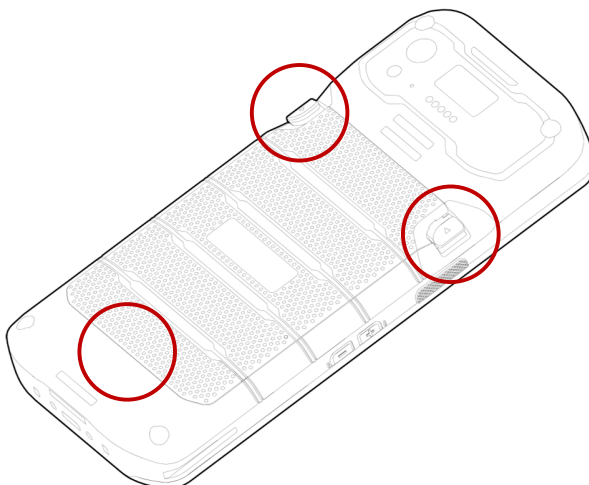
Figure 11 Installing battery – 1



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

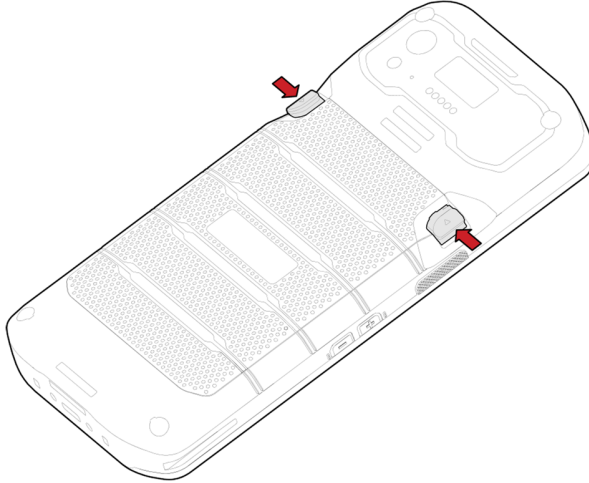


Getting Started

Remove the battery

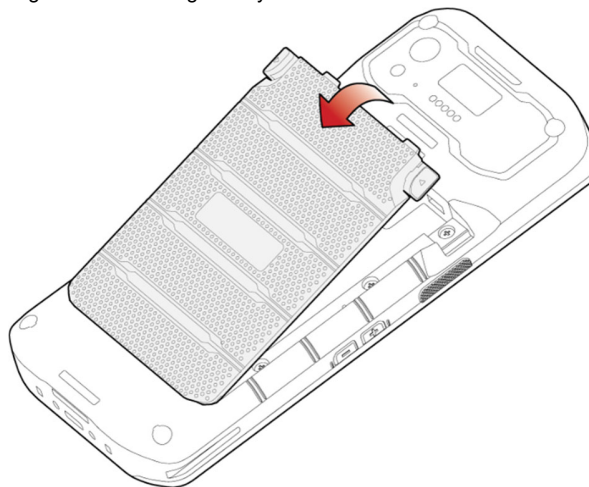
1. Hold the battery release buttons and press in.

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.

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.

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 °C to 45 °C. At out-of-normal range temperatures, the PM84P may stop charging for safety, and the power LED blinks red.

Getting Started

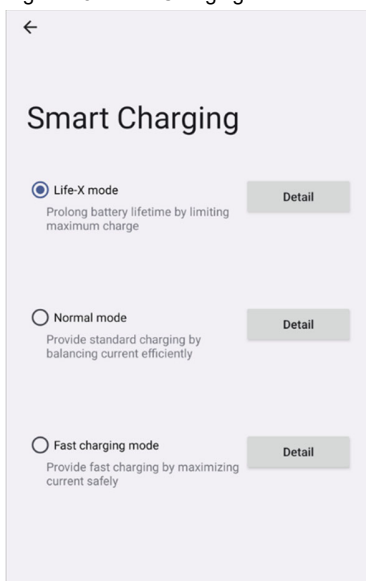
Smart Charging

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

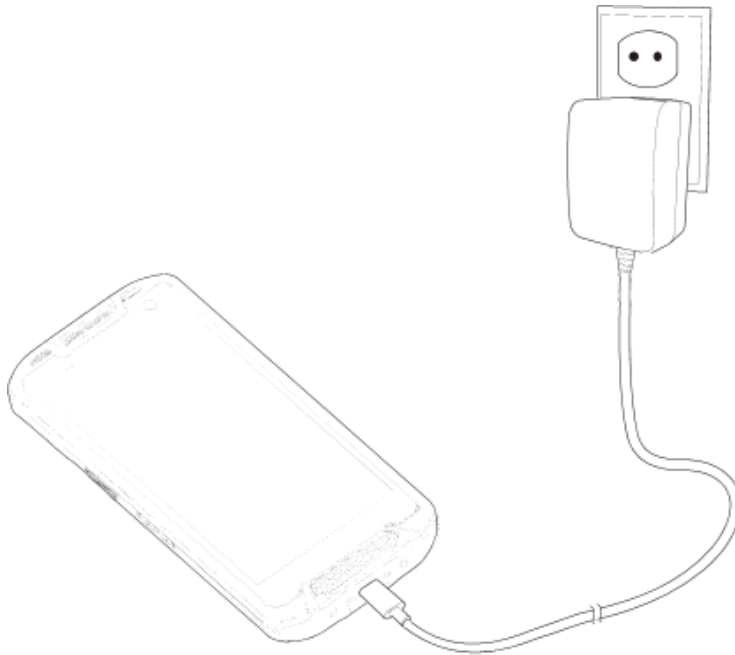


Getting Started

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.



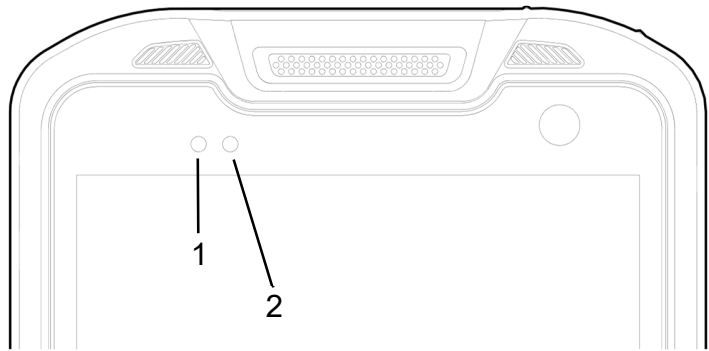
Note: All cradles are compatible with PM95.

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

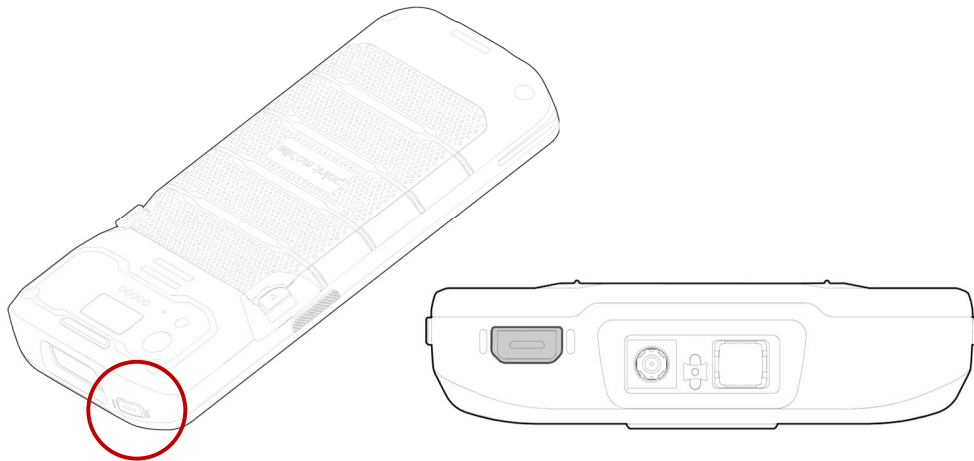
Getting Started

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.

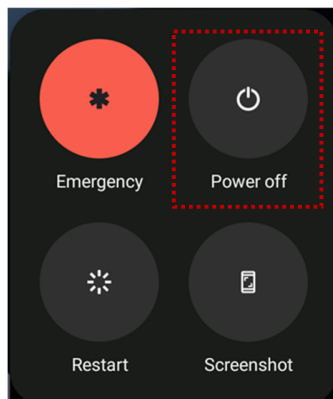
Figure 18 PM84P power button



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**.

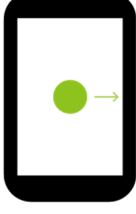
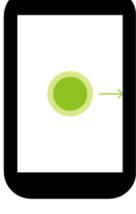
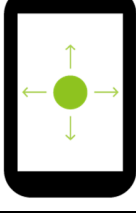
Figure 19 Power menu - Power off



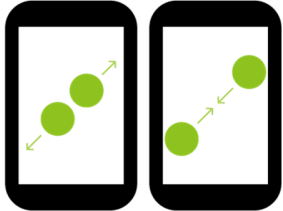
Getting Started

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

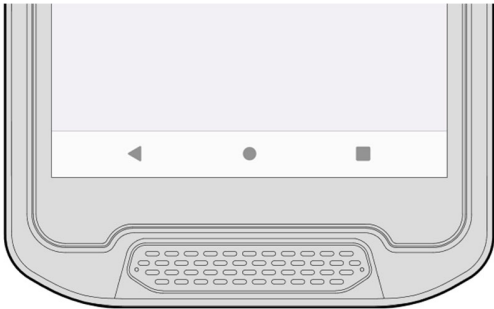


System navigation

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.

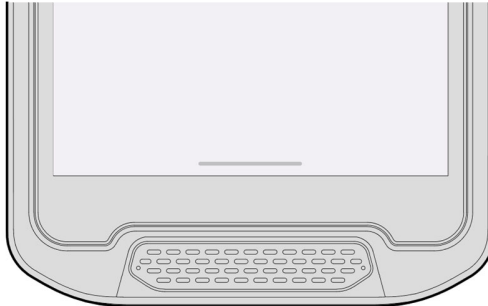
To hide the navigation bar, navigate to **Setting**  **> System > Gesture > System navigation** and change the setting to **Gesture navigation**. Then, the navigation bar will be hidden.



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 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)

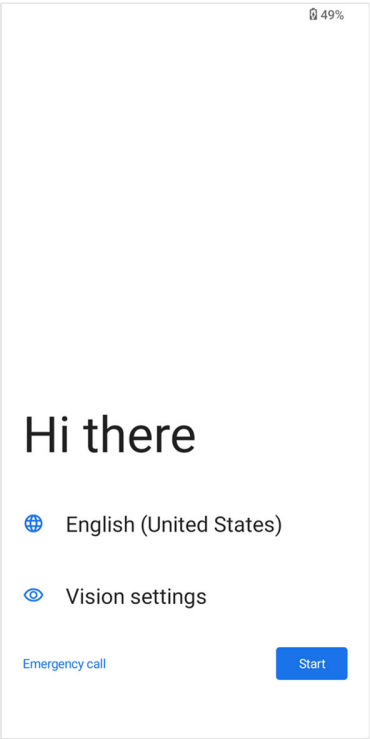
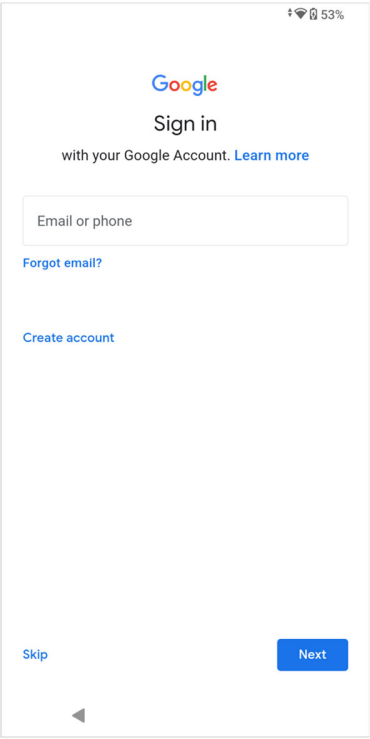


Figure 23 Setup Wizard (Google account)



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

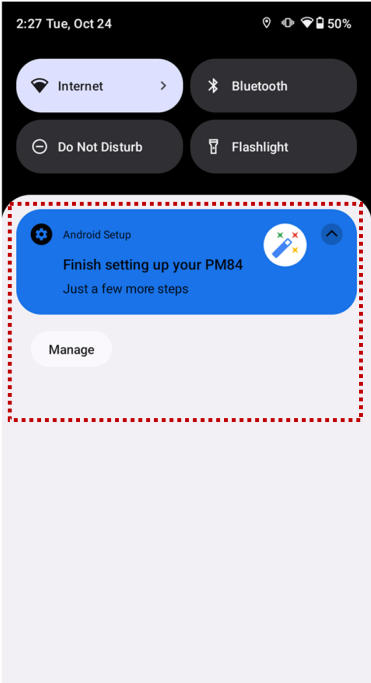
Icon	Description	Icon	Description
	Missed call		New SMS or MMS message
	New Email		Connected to VPN network
	Upcoming event		Other input method available
	File uploaded		File downloaded
	File copied		OTG device connected
	There are more notifications		

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

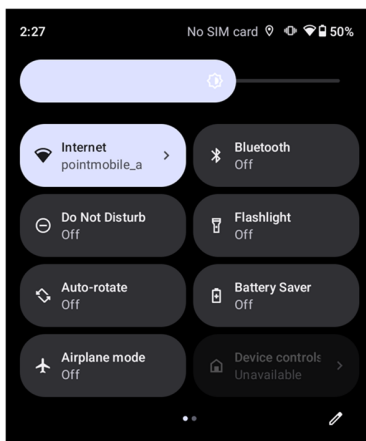
Quick setting panel

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.

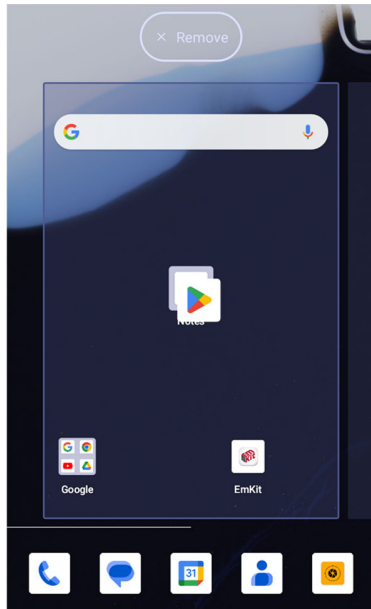
Learning the Basics

Apps & Widget

App folder

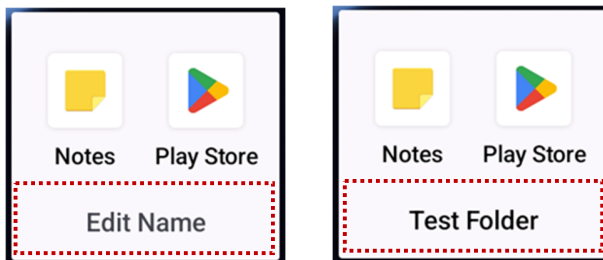
To create the app folder, long-press an app icon and drag it to another app icon.

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



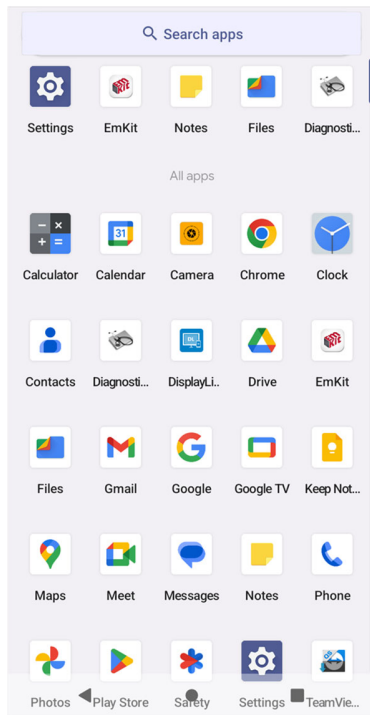
Learning the Basics

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

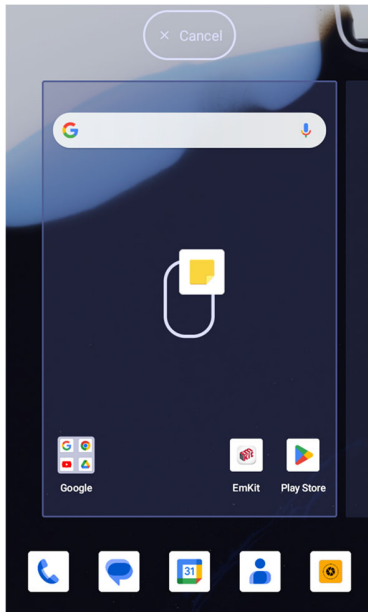
Organize app in Home screen

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

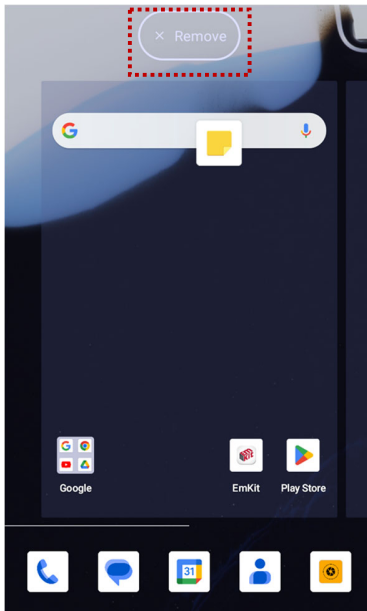


Learning the Basics

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



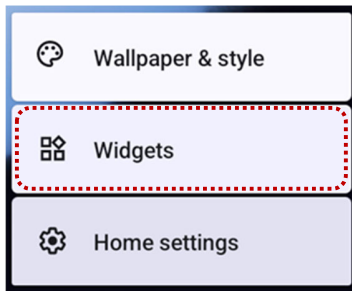
Learning the Basics

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

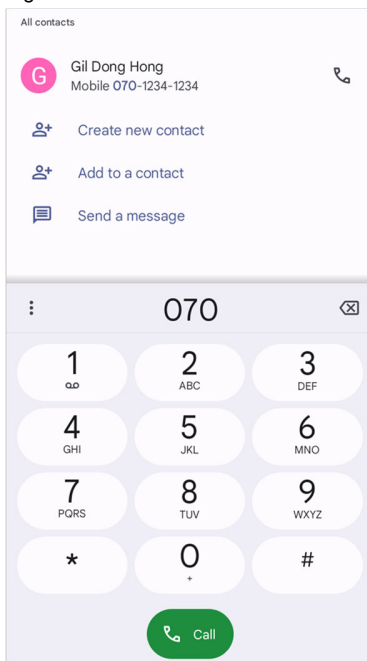
Note: Calling is only available on LTE SKU (SKU3 ~4). And it requires a SIM card.

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

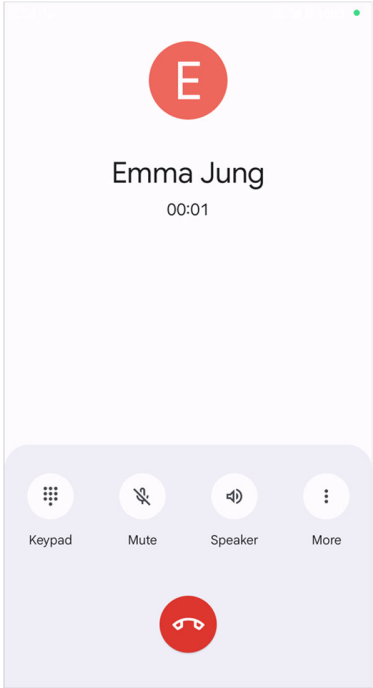


4. Tap  or  next to a searched number to make a call.

Learning the Basics

5. Control the Tap  to hang up the phone.

Figure 35 Calling screen



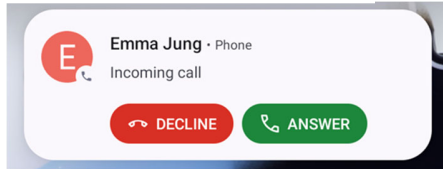
Icon	Function Name	Description
	Keypad	Open the keypad
	Mute	Mute microphone
	Speaker	Speakerphone mode
	(More) Add call	Add another call (Enable when receiver answer the phone)
	(More) Hold	Hold the call

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

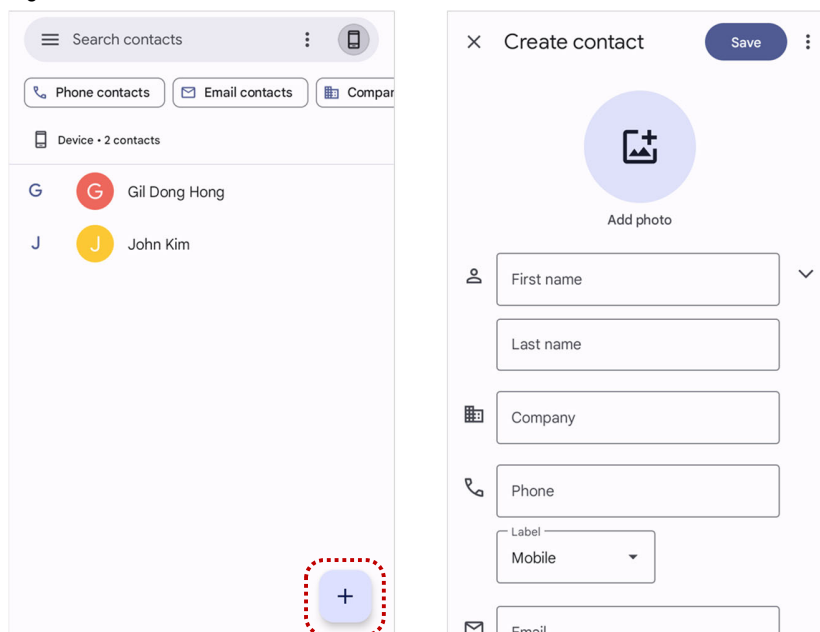
Add a contact via dialer

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



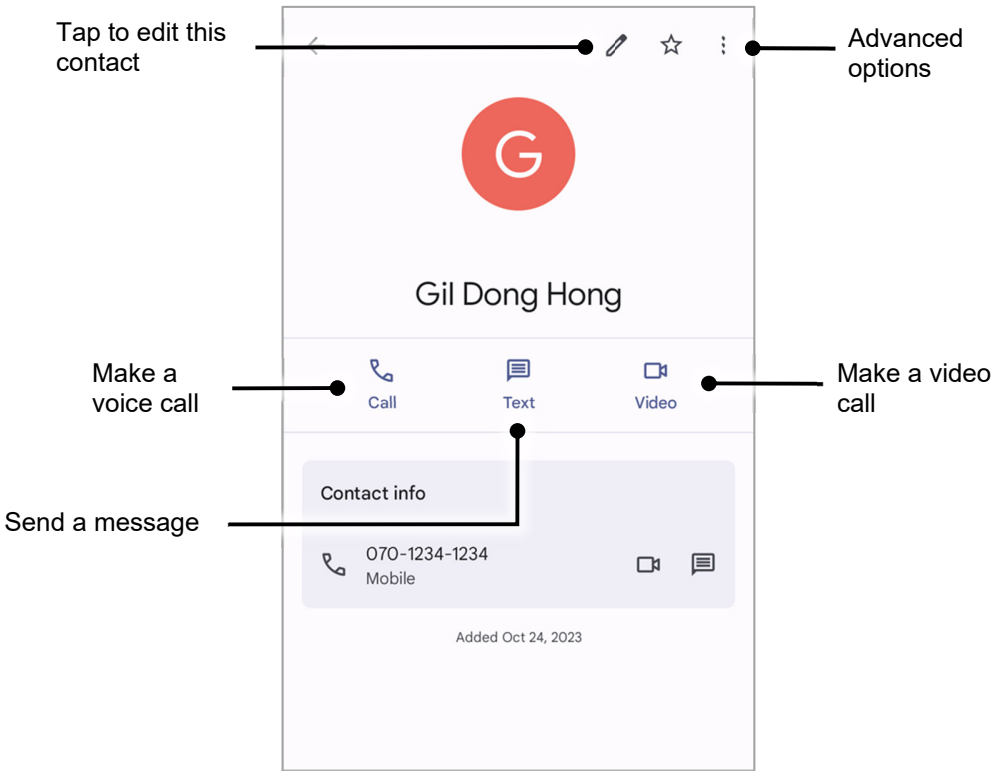
Enter the contact details and tap **Save** on the top of the screen.

Learning the Basics

Contact detail

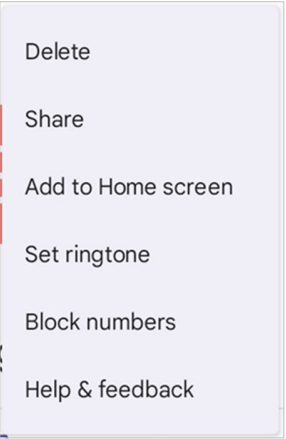
Select a contact from the list to find more detail information.

Figure 38 Contact detail



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

Figure 39 Contact advanced options



Learning the Basics

Message

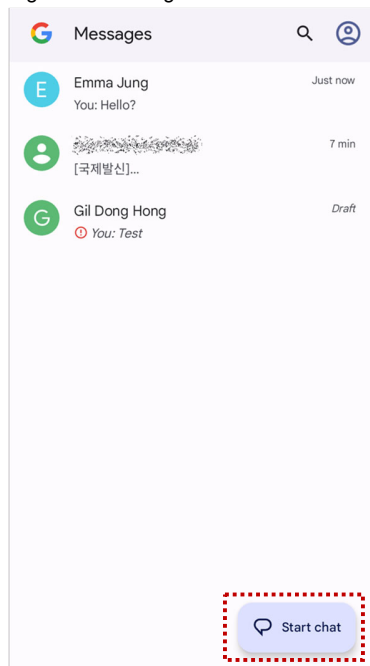


Note: Message feature is only available on LTE SKU (SKU3 ~ 4). And it requires a SIM card.

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



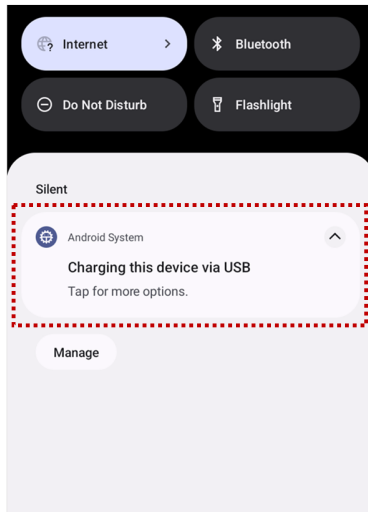
Learning the Basics

MTP Connection with PC

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

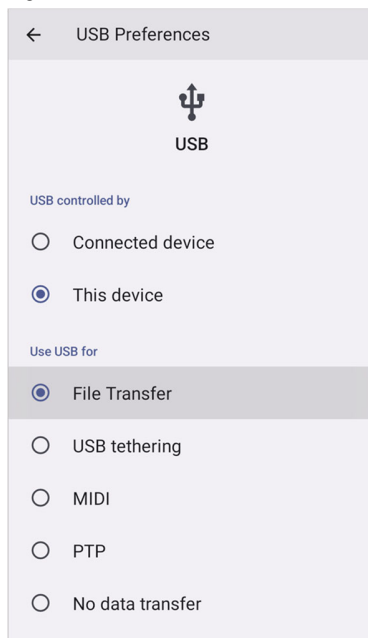
1. Drag down Status bar and tap **Android System** notification to change USB preference option.

Figure 42 USB connection notification



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

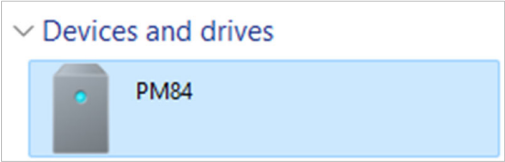
Figure 43 USB Preferences



Learning the Basics

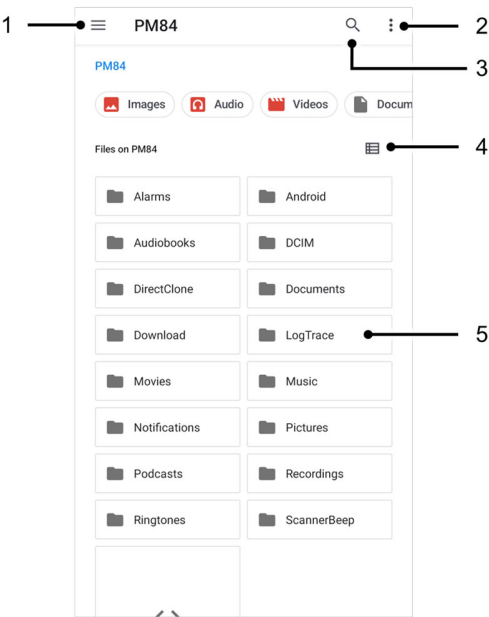
3. Now the PC can recognize the connected device. Find the PM84P device from the PC’s file explorer.

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

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

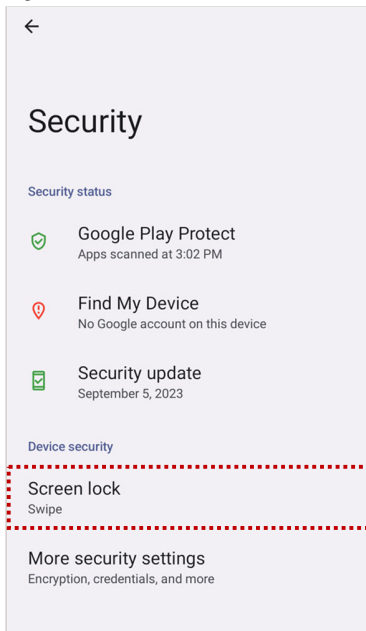
Learning the Basics

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%)

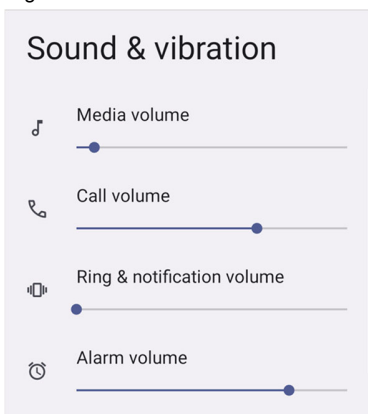


Warning: Using high brightness levels for long periods may cause eye strain and increase battery consumption.

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.

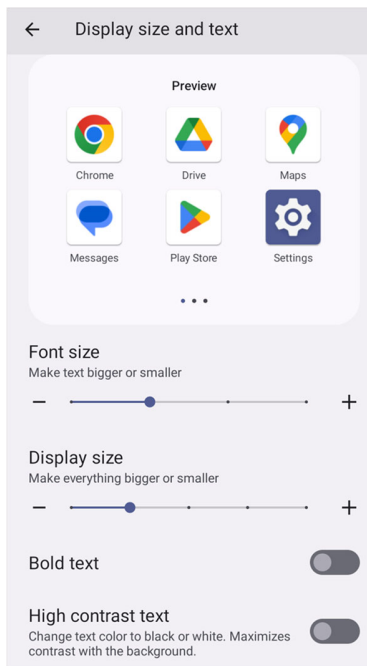
Learning the Basics

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.

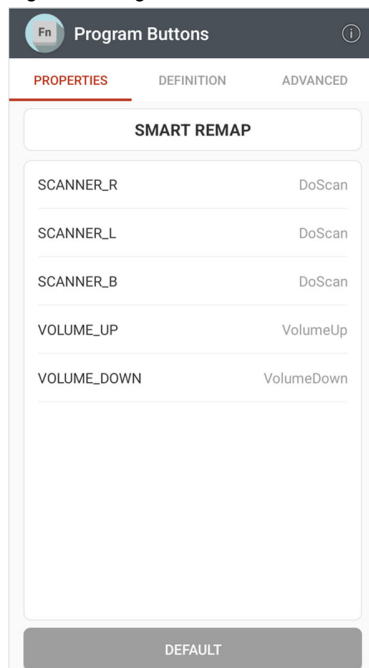
The screenshot image will be saved to **Pictures > Screenshots** folder in the internal storage.

Program Buttons

Most buttons on the 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



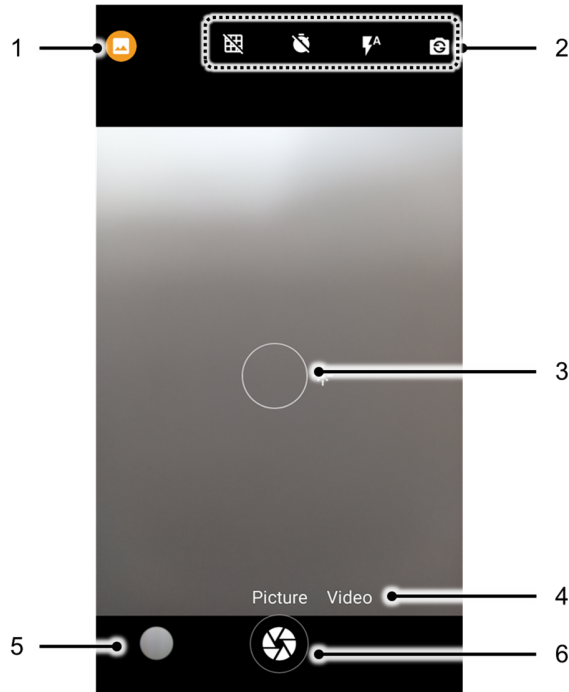
Note: SCANNER_B indicates the trigger button on the gun handle.

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

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

