



For Android™ 15

Enterprise Mobility

PM68

User Manual

Introduction

This manual provides information about basic features and using the PM68. Please read this manual carefully before using your device and peripherals to ensure safe and proper use.



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

Revision History

Revision	Date	Description
v0.1	25 Feb 2025	Initial draft

PM68 SKUs

The contents of this manual can cover the following SKUs.

SKU	Scanner	Network	RAM / Flash	Common
SKU1	N2601	Wi-Fi/BT	4G/64G	Android GMS 15, Numeric keypad, Rear Camera NFC
SKU2	E3140			
SKU3	N2601	LTE, GPS, Wi-Fi/BT		
SKU4	E3140			
SKU5	E3140			
SKU6	N5703		6G/64G	

Introduction

Note Indicators

The manual uses the following note types to provide important or further information to readers.



Note: Provides additional tips helpful when using the device.



Caution: Indicates recommended precautions to use the device safely.



Warning: Highlights important precautions that may prevent minor or serious physical or system injury.

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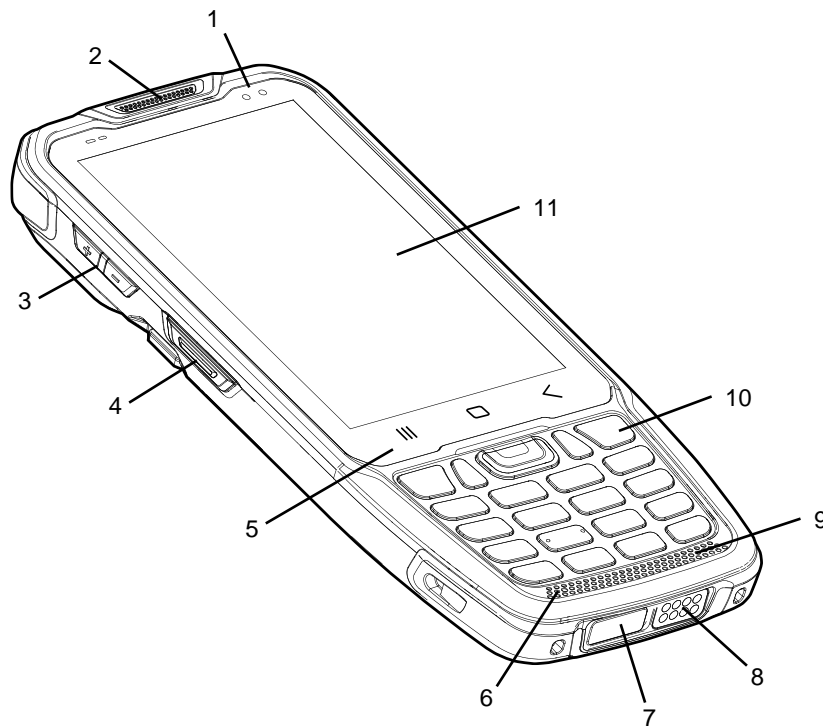
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Getting Started

Device Parts

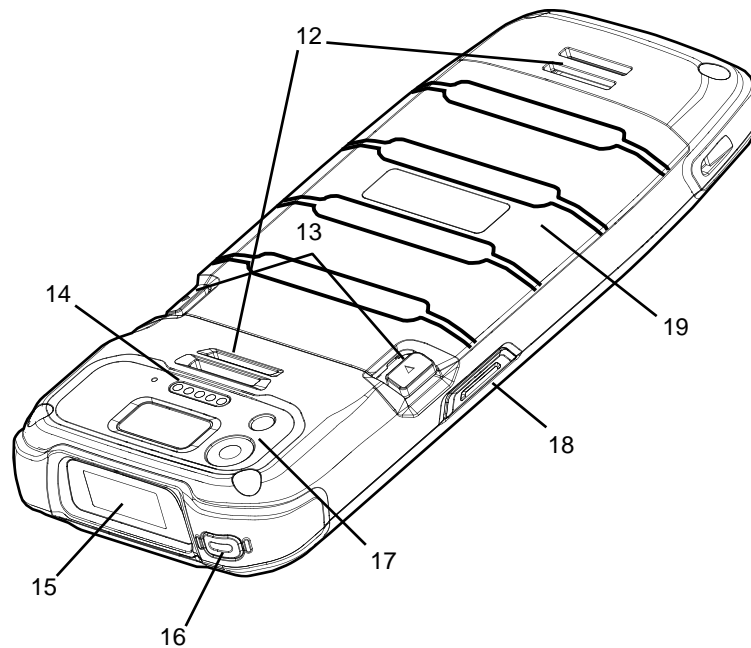
Figure 1 PM68 front + left view



No	Name	Description
1	LED indicator	Indicate the power status and notification. Find more details in LED indicator .
2	Receiver	Use with making a phone call
3	Volume buttons	Control the volume
4	Scan button (Left)	Scan a barcode by pressing (Programmable button)
5	Software buttons	<div> <div> </div> <div>(Recent app button) : List up the recently used apps</div> </div> <div> <div>□</div> <div>(Home button) : Go to home screen</div> </div> <div> <div><</div> <div>(Back button) : Go back to previous screen</div> </div>
6	Microphone	Use for collecting sound
7	USB connector	USB Type C connector for charging and data communication
8	I/O connector for cradle	Connector for charging with cradle
9	Speaker	Ring system sound
10	Keypad	Numeric Keypad (For more details, refer to Keypad)
11	Touch screen	Displays all operating screen

Getting Started

Figure 2 PM68 rear + right view








No	Name	Description
12	Hand strap hole (top / bottom)	Mount a hand strap
13	Battery release button	Press the buttons in to release the battery
14	Rear I/O connector	Connector for sled type accessories (RF88 sled or gun handle)
15	Scanner	Scan a barcode
16	Power button	Turn on/off the device
17	Rear camera & Flashlight	Take a picture & Use flashlight in camera or torch mode
18	Scan button (Right)	Scan a barcode by pressing (Programmable button)
19	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
	5V 2A power adapter
	AC plug
	LCD protection film
	Hand strap (equipped)



Note: The images may differ from the actual accessory.

Getting Started

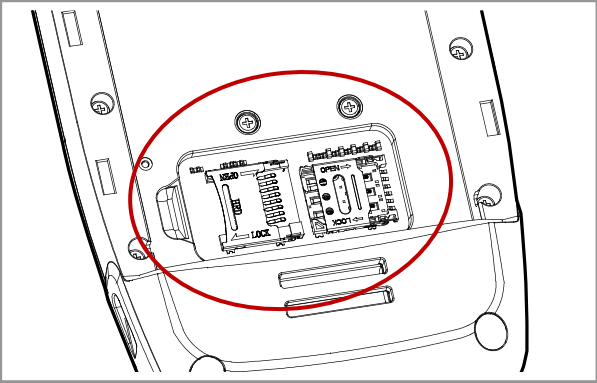
Install SD & SIM cards



PM68 supports

- microSD card
- Nano SIM card – WWAN 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 PM68Card Slots



Wi-Fi SKU	WWAN SKU
	

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.

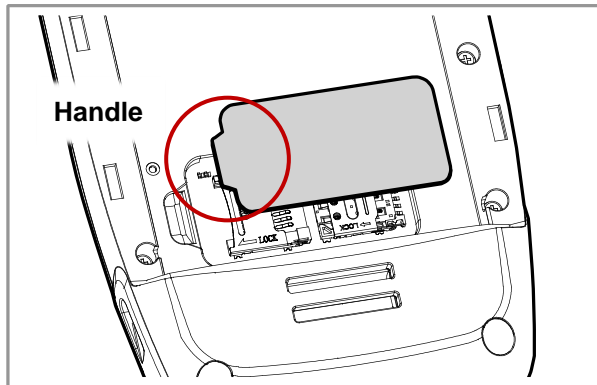
To open the cover, pull it out using the handle on the left side.

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

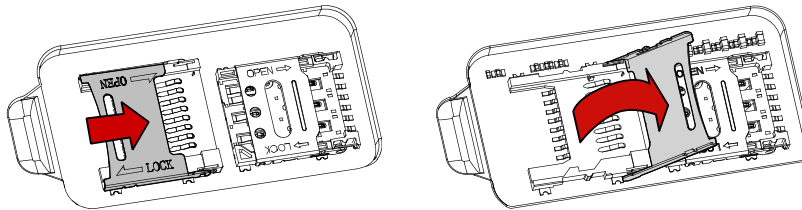


Getting Started

Install SD card

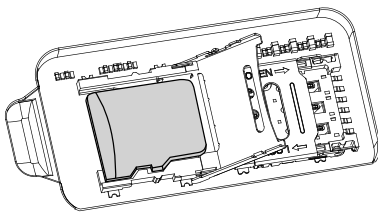
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **right**, and swing upwards to open the holder.

Figure 5 Open SD cardholder



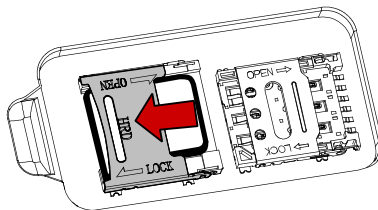
3. Put the SD card you prepared with the contacts facing down.

Figure 6 Place SD card



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

Figure 7 Close SD cardholder



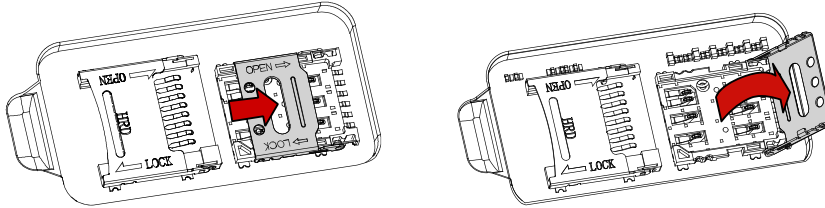
5. Close the card slot cover firmly.

Getting Started

Install SIM card

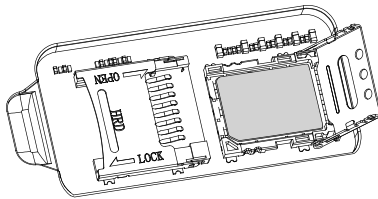
1. Remove the battery and open the card slot cover.
2. Gently slide the cardholder **right**, and swing upwards to open the holder.

Figure 8 Open SIM cardholder



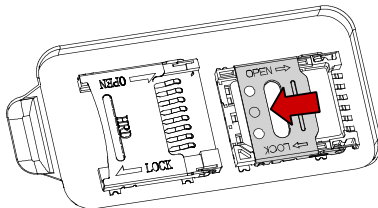
3. Put a nano SIM card you prepared with the contacts facing down.

Figure 9 Place SIM card



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

Figure 10 Close 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 (opposite side of the battery release buttons).
2. Push the battery down until it clicks.

Confirm that the battery release buttons are completely outward.

Figure 11 Installing battery - 1

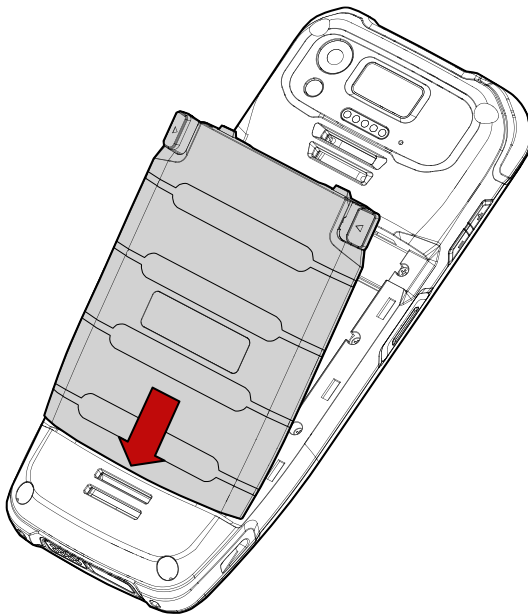
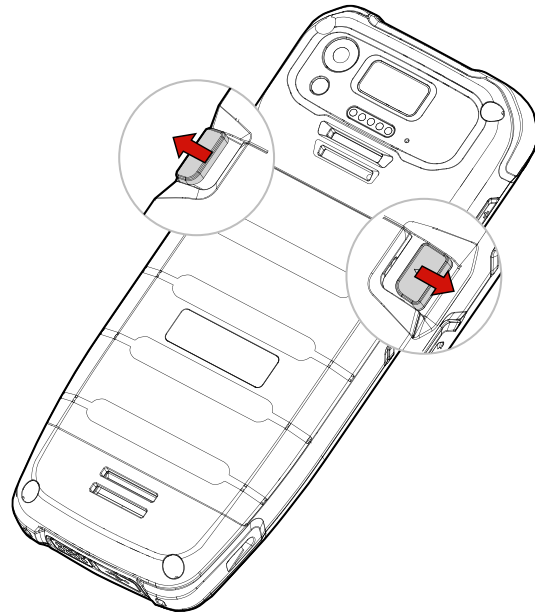


Figure 12 Installing battery - 2



Getting Started

Remove the battery

1. Hold the battery release buttons and press in/
2. While pressing the battery release button in, pull the battery up.

Figure 13 Removing battery - 1

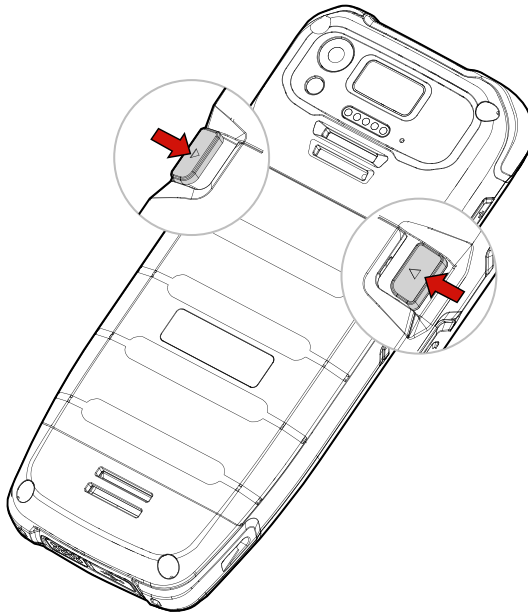
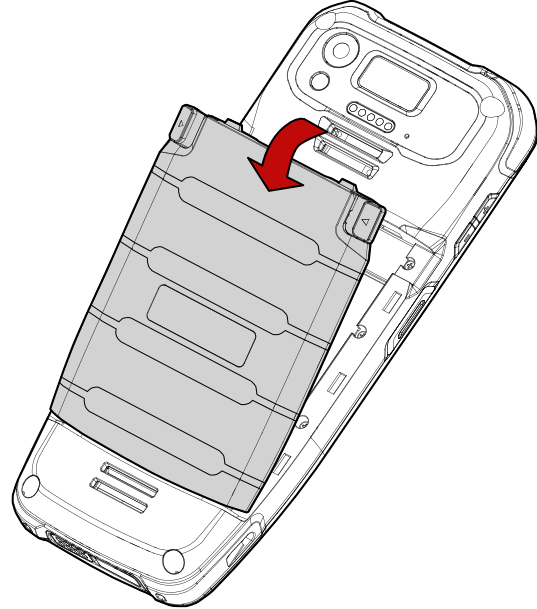


Figure 14 Removing battery - 2



Getting Started

Battery hot swap

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

PM68 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 PM68, charge the device enough to use. PM68 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 cradle from Point Mobile. Other chargers and cradles may damage PM68. Also, make sure the charger and cables are not wet.

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

Battery specification

- Typical capacity: 4,150mAh
- Rechargeable & Removable battery

Charging temperature

Charge devices and batteries in temperatures from 0 °C to 45 °C. At out-of-normal range temperatures, the PM68 may stop charging for safety, and the power LED blinks red.

Getting Started

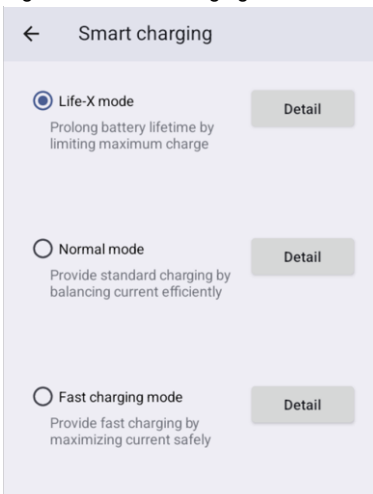
Smart Charging

PM68 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

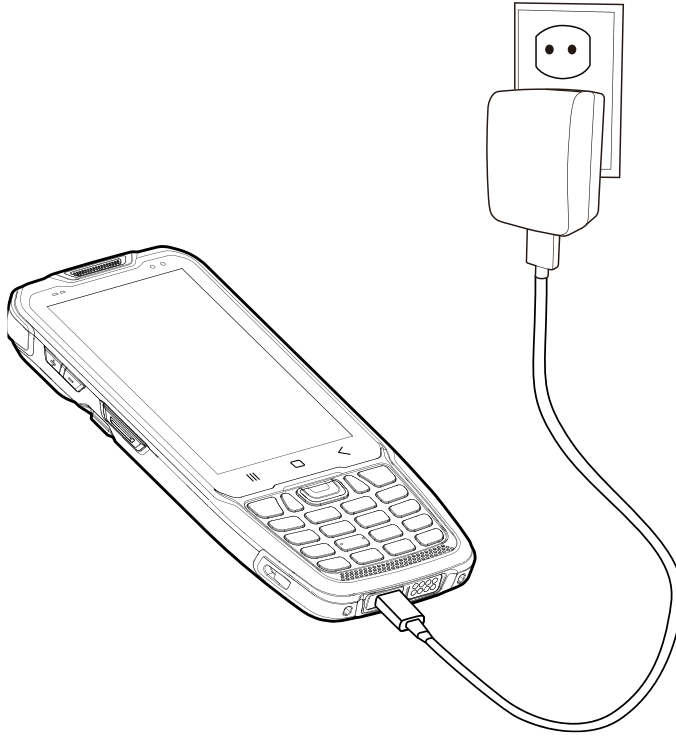


Getting Started

Charge with power adapter

1. Assemble the proper country plug and charger, and rotate the plug clockwise to engage firmly.
2. Connect the cable to the USB connector on the bottom side of PM68.
Depending on SKUs, you may need to open the USB connector's cover cap.
3. Provide power by plugging the power adapter to the wall socket.

Figure 16 PM68 charging with power adapter



Charging Cradle

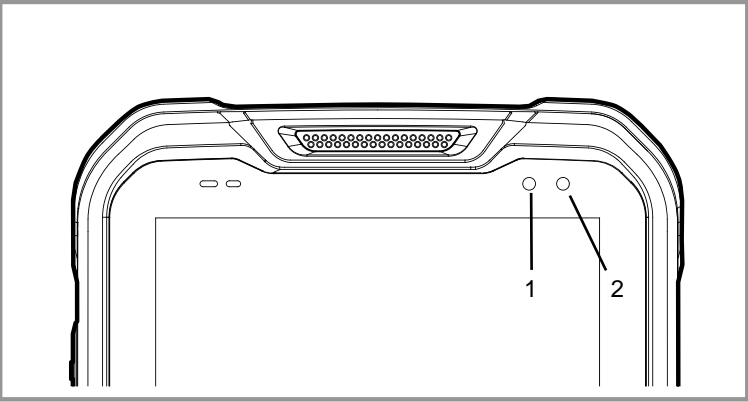
There are two types of charging cradle for PM68. Single slot cradle light (SSCL) and 4 slot battery cradle (4SBC). The cradles are sold separately. Find more detail about cradle from [Accessories chapter](#).








Getting Started

LED Indicator

PM68 has 2 LED indicators above the screen.

Figure 17 PM68LED 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

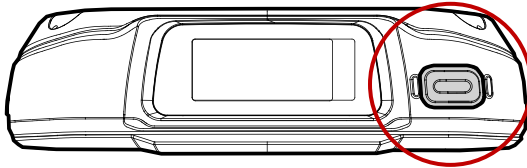
Getting Started

Turn On / Off the Device

To turn on the device,

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

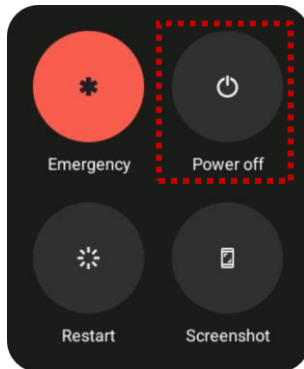
Figure 18 PM68 power button



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**.



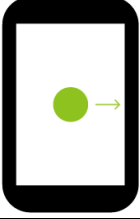
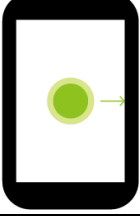
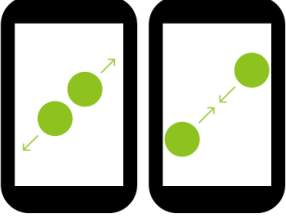

Figure 19 Power menu - Power off



Getting Started

Use a Touch Screen

Controlling the touch screen

Gesture	Description
	<p>Tap</p> <p>One-finger press</p>
	<p>Long-press</p> <p>One-finger press, wait, lift for select action</p>
	<p>Drag, Swipe, or Fling</p> <p>One-finger press, move, lift for scroll or tilt action</p>
	<p>Long-press drag</p> <p>One-finger press, wait, move, lift for pick up and move, or select multiple items action</p>
	<p>Pinch Open & Close</p> <p>Two-finger press, move outwards and inwards, lift for zoom in / out action</p>
	<p>Rotate</p> <p>When PM68 is turning sideways, screen orientation is changing</p>

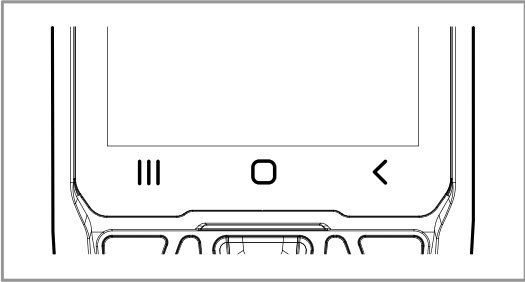
Getting Started

System navigation

Software buttons

The software buttons for navigating system are located below the screen. The recent app button, home button, and back button are placed in order.

Figure 20 Software buttons



Shape	Button	Function
	Recent apps button	Tap to see the recently used app list.
○	Home button	Tap to go to home screen. Long-press to launch the Google Assistant.
<	Back button	Tap to go back to previous screen.

Getting Started

Gesture Navigation

The functions provided by the software buttons can be used by using specific gestures, too.


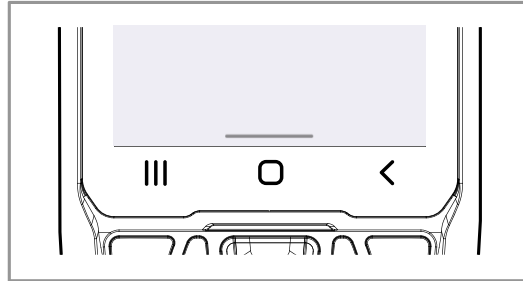
To use gesture navigation, navigate to **Setting**  > **System** > **Gestures** > **Navigation mode** and change the setting to **Gesture navigation**. Find the gestures and matched function in the table below.

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.

Touch sensitivity

Adjust the sensitivity of the touch screen for different use scenarios, such as rainy condition or working with gloves.

With the Comfort / Cotton glove touch options, the sensitivity will be increased to detect the dull touch. In contrast, if selecting the Wet touch option, the sensitivity will be decreased to avoid unintended touch by wet.

1. Go to **Settings** > **Accessibility**, or **EmKit**.
2. Select **Touch Sensitivity**.
3. Select an appropriate sensitivity option. Default is Normal touch

Learning the Basics

Setup Wizard

When PM68 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)

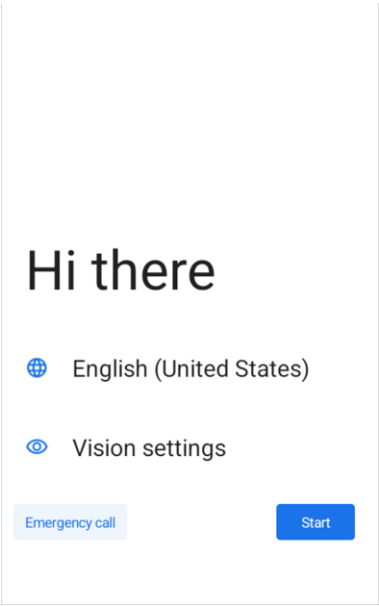
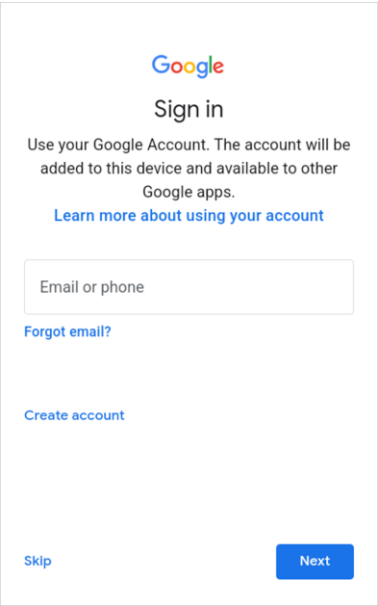


Figure 23 Setup Wizard (Google account)



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 folder	Apps are organized in the folder. Tap to open the App folder
4	App	Tap to run the application Long-press to see the application's options
5	Favorites tray	Place the frequently used apps


































Learning the Basics

Status bar

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

Status icons












Status icons indicate the current state of the device and are displayed on the right side of the status bar.

Icon	Description	Icon	Description
	LTE connected		3G connected
	LTE+ (LTE CA) connected		Strong signal
	EDGE connected		Weak signal
	VoLTE enabled		Connection issue
	No data connection		Data disabled
	Connected to a Wi-Fi network		Data communication
	Hotspot enabled		
	Connected to a Bluetooth device		Airplane mode
	Battery is full		Battery is low
	Battery is critical low		Cannot recognize battery
	Battery is charging		Battery saver is on
	Data saver is on		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
	Numeric input mode		Uppercase alphabet input mode
	Lowercase alphabet input mode		Functions input mode

Learning the Basics

Notification icons

Notification icons which indicate new notifications or status changes, are displayed on the left side of the status bar.

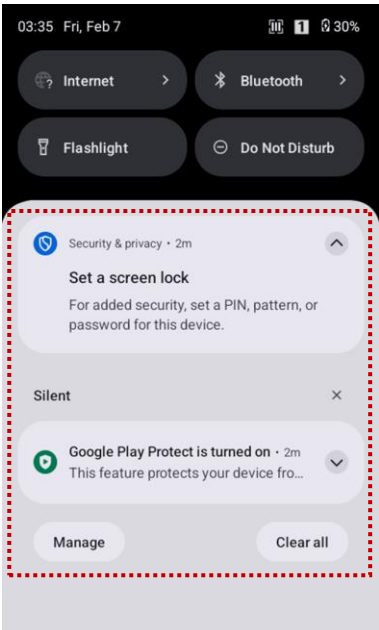
Icon	Description	Icon	Description
	Missed call		New SMS or MMS message
	New Email		Connected to VPN network
	Upcoming event		Other input method available
	File uploaded		File downloaded
	File copied		OTG device connected
	There are more notifications		

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

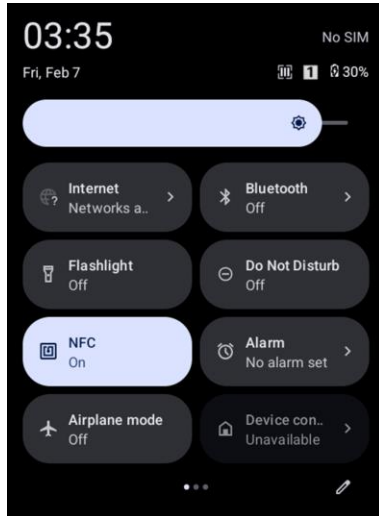
Quick setting panel

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.

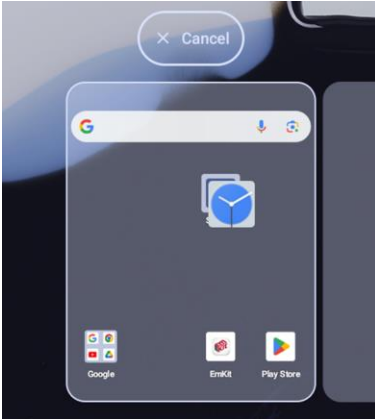
Learning the Basics

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



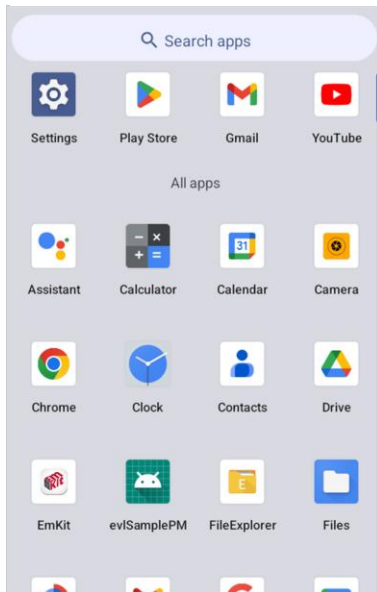
Learning the Basics

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

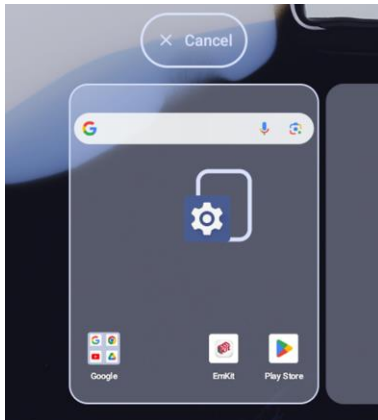
Organize app in Home screen

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.)

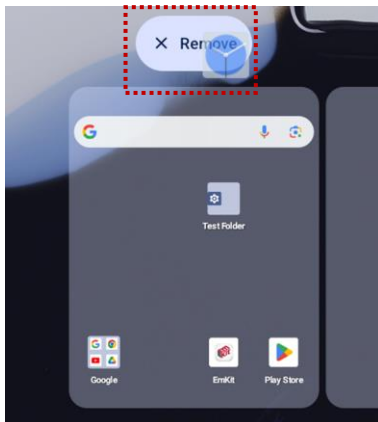
Figure 31 Place app in Home screen



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



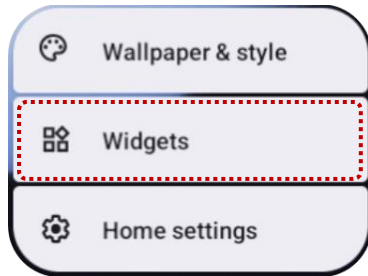
Learning the Basics

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 WWAN (LTE) SKU. 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



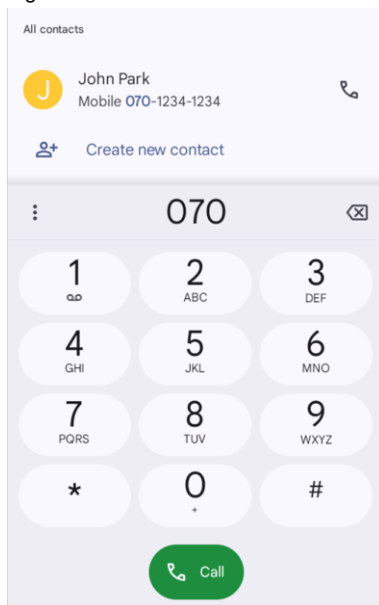


1. Tap **Phone**  from Home screen or App drawer.
2. Tap  to open a dialer.
3. Input a phone number.

Figure 34 Dialer

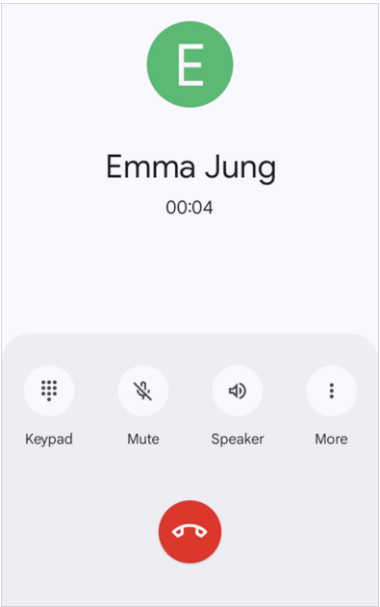








4. Tap  or  next to a searched number to make a call.

Learning the Basics

5. Control the Tap  to hang up the phone.

Figure 35 Calling screen

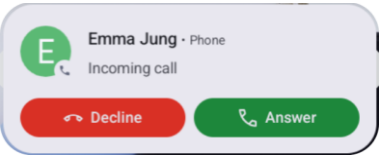


Icon	Function Name	Description
	Keypad	Open the keypad
	Mute	Mute microphone
	Speaker	Speakerphone mode
	(More) Hold	Hold the call
	(More) Video call	Convert the call to video call
	(More) Add call	Add another call (Enable when receiver answer the phone)

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

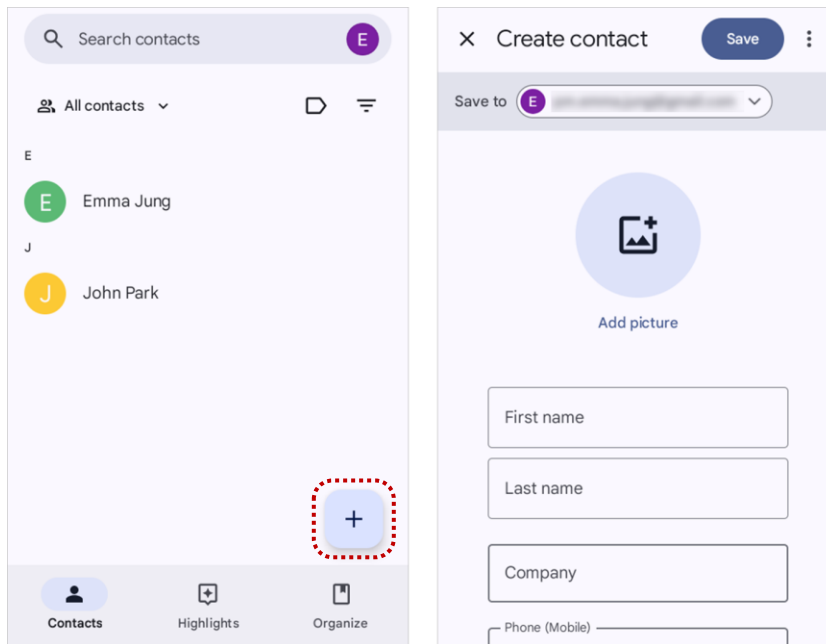
1. Navigate to dialer through Phone, and enter the number.
2. Tap **Create new contact** or **Add to a contact** to save the number.
3. Input additional information.
4. Tap **Save**.

Add a contact via contacts app

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

Enter the contact details and tap **Save**.

Figure 37 Add new contact via Contacts



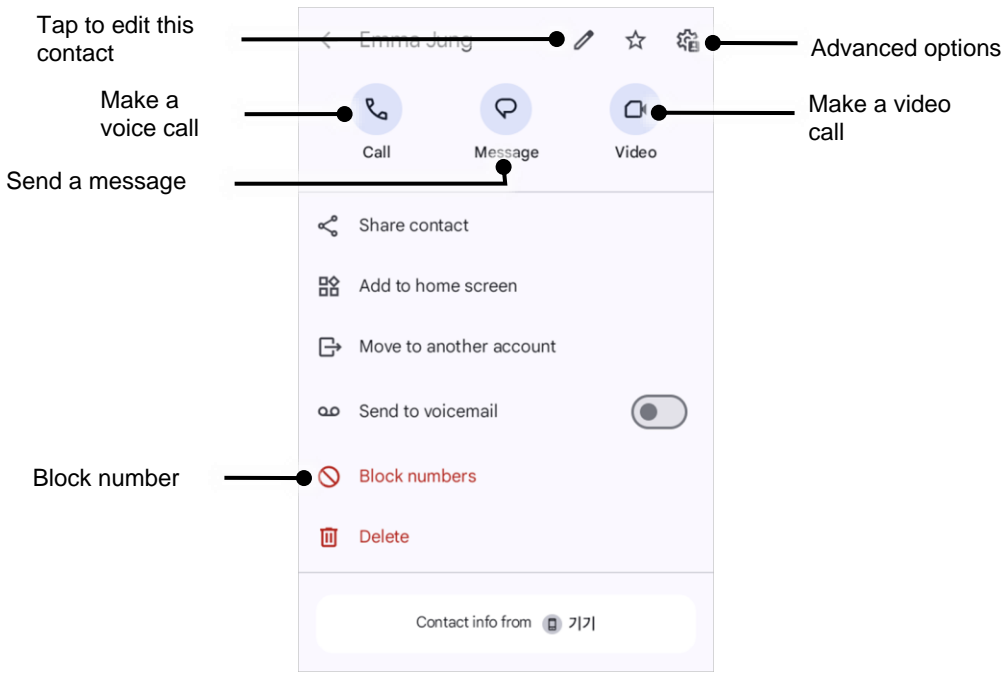
Learning the Basics

Contact detail

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

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

Figure 38 Contact detail




Learning the Basics

Message



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

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


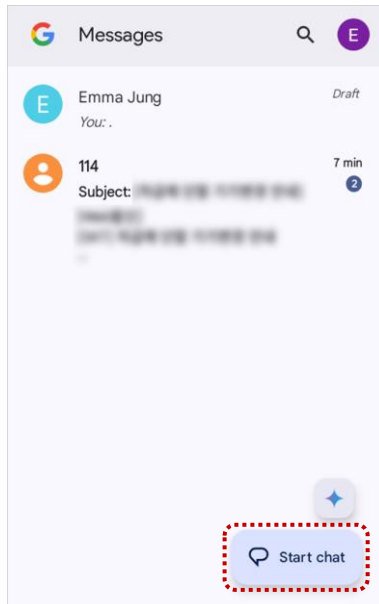
1. Launch **Message**  from App drawer.
2. Tap **Start Chat** and type the receiver's name or phone number.

Figure 39 Message list




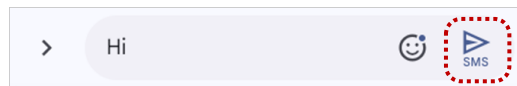
3. Input a message.
4. Tap  icon to send.

Figure 40 Message send



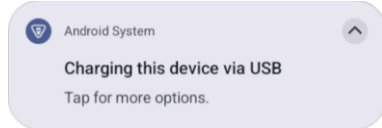
Learning the Basics

MTP Connection with PC

To transfer the files with a PC,

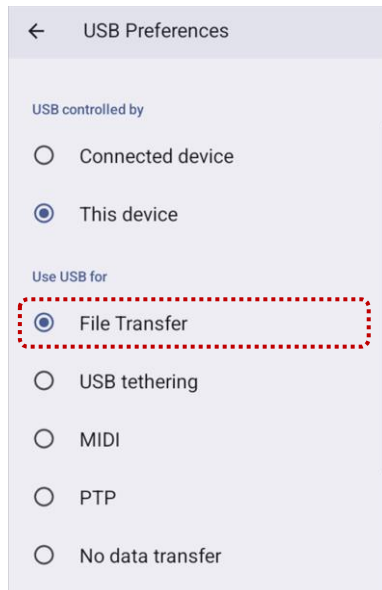
1. Connect the device to the PC via USB cable first.
2. Drag down Status bar and tap **Android System** notification to change USB preference option.

Figure 41 USB connection notification



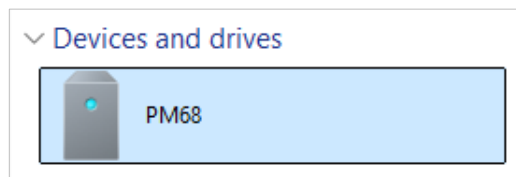
3. Change the option to **File Transfer** from **No data transfer**.

Figure 42 USB Preferences



4. Now the PC can recognize the connected device. Find the PM68 device from the file explorer of the PC.

Figure 43 File explorer on PC

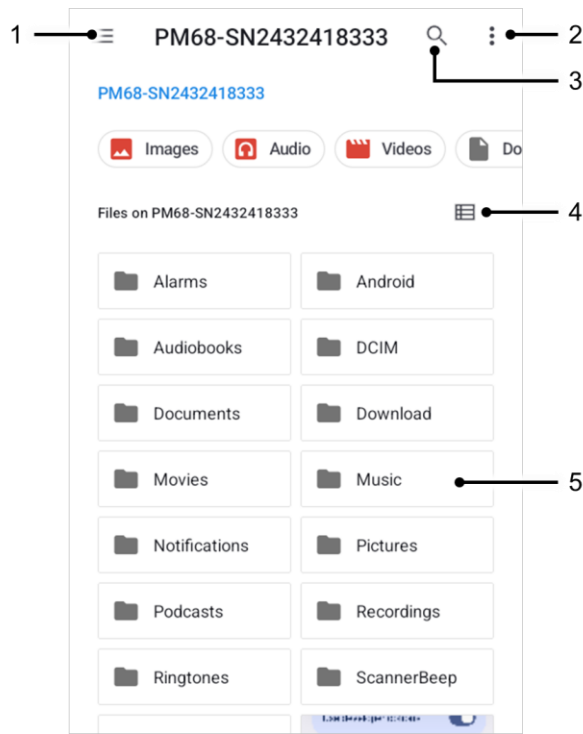


Learning the Basics

Manage the Files

Find the files stored in the device’s storage and SD card using **FileExplorer** app.

Figure 44 FileExplorer main screen

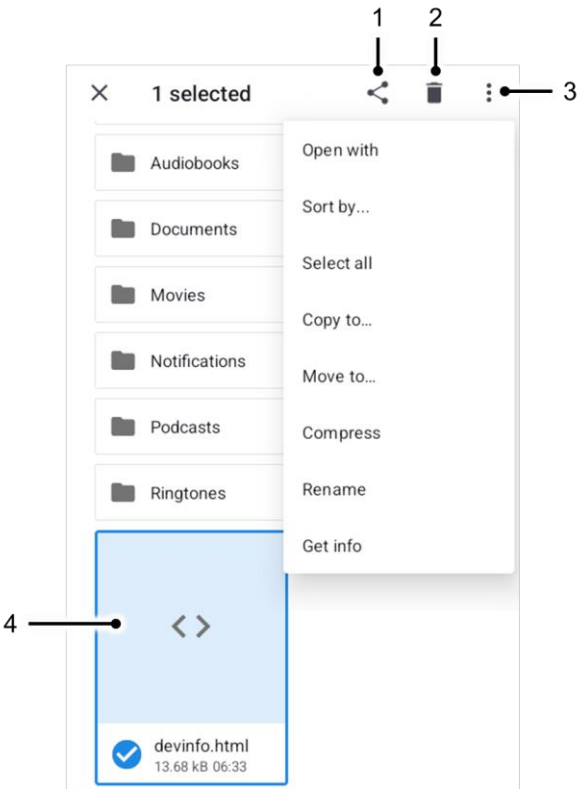


No	Description
1	Select media file type or storage
2	Open the advanced option – Create a new window or folder, Select all files and folders, etc.
3	Search a file
4	Change the view of file list
5	Tap a file or folder to open. Or long-press a file or folder to select

Learning the Basics

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

Figure 45 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 <ul style="list-style-type: none"> - Open with: Select which app to open the file - Sort by...: Sort the list by file name, size, type, etc. - Select / Deselect all: Select or Deselect 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

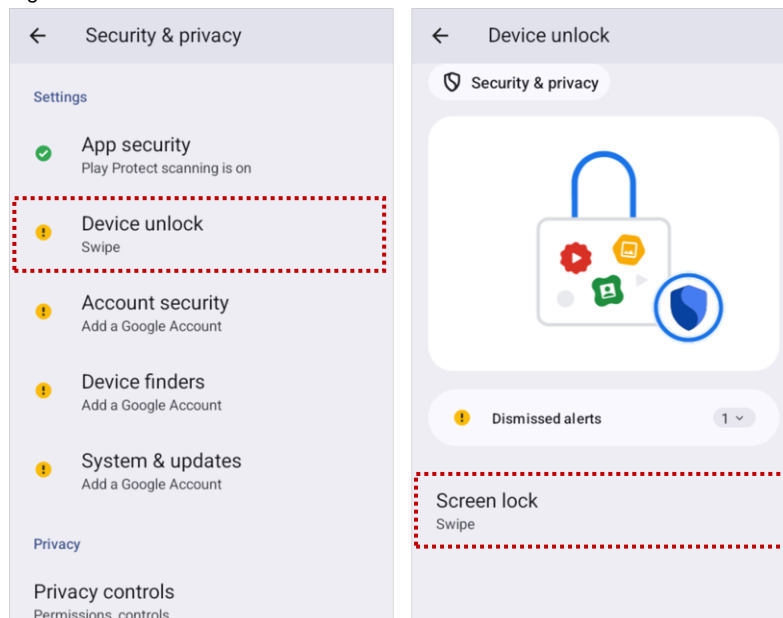
Learning the Basics

Lock the Screen

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

1. Navigate to **Settings**  > **Security & privacy**.
2. Select **Device unlock** > **Screen lock**.

Figure 46 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 47 Normal brightness level



Figure 48 High brightness level (higher than 80%)



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

Adjust sound


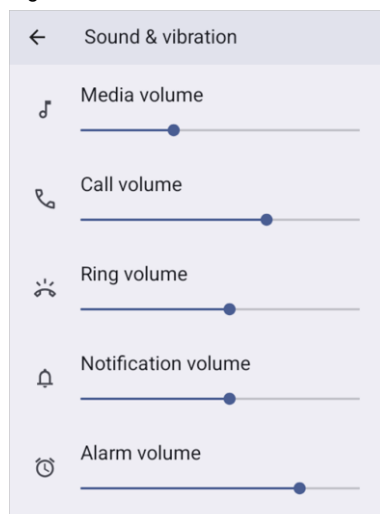
To adjust sound volume, go to **Settings**  > **Sound** and control the Media, Call, Ring, Notification, and Alarm volume bars.

Figure 49 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 of the screen is too small or too large, adjust the size.


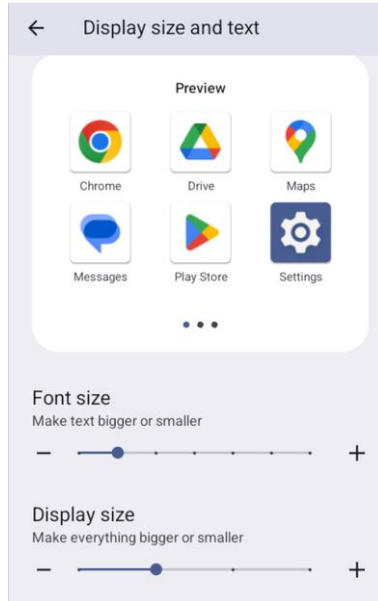
1. Go to **Settings**  > **Display** > **Display size and text**.
2. Referring to the **Preview**, set the font size.

Figure 50 Set display and text size



Use Keyboard Backlight

The buttons in the keypad may not be visible in the dark. For this inconvenience, PM68 provides the keyboard backlight option so that you can find the proper keys easily.

To use the keyboard backlight,


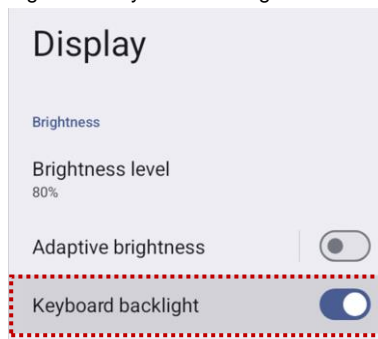
1. Go to **Settings**  > **Display**.
2. Tap **Keyboard backlight** switch.

Figure 51 Keyboard Backlight



Learning the Basics

Turn on screen by Lifting Device


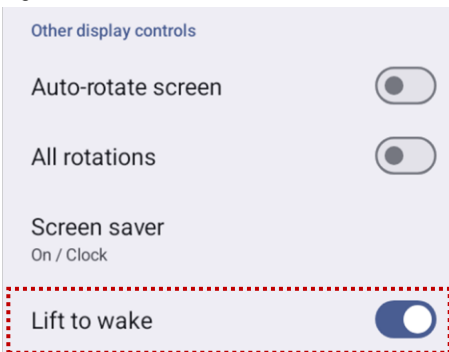
Lift the device up to turn on the screen. You can use this feature from **Settings**  > **Display**. Turn on the **Lift to wake** switch to use.

Figure 52 Life to wake






Using the Keypad







Keypad

Figure 53 Numeric keypad



Key	Description
Backspace <i>BKSP</i> 	Backspace function
Mode (Yellow) 	<p>Toggle key for Alphabet input mode. The characters shown on the keypad in yellow will be inputted in Alphabet input mode.</p> <p>Press once</p> <ul style="list-style-type: none">Activates Uppercase Alphabet input modeThe A icon appears on status bar <p>Press twice</p> <ul style="list-style-type: none">Activates Lowercase Alphabet input mode.The a icon appears on status bar. <p>Press three times</p> <ul style="list-style-type: none">Back to Numeric input mode.The 1 icon appears on status bar
Scan <i>SCANNER_F</i> 	Scan the barcode





Using the Keypad

Key	Description
Function (Blue) 	Toggle key for blue function input mode. Press once <ul style="list-style-type: none"> Activates blue function input mode The Fn icon appears on status bar Press two times <ul style="list-style-type: none"> Back to last input mode.
Enter <i>ENTER</i> 	Enter function
Left / Up / Down / Right <i>DPAD_LEFT / UP / DOWN / RIGHT</i> 	In Default input mode <ul style="list-style-type: none"> Moves left / up / down / right In Function input mode <ul style="list-style-type: none"> Controls screen brightness or volume Refer to Functions section for more detail.
Numeric 0~9 / Function 1~9 <i>0~9 / F1~F9 / SPACE</i> 	In Default input mode <ul style="list-style-type: none"> Inputs 0 to 9 In Alphabet input mode <ul style="list-style-type: none"> (1~9) Inputs alphabet in uppercase or lowercase. In Functions input mode <ul style="list-style-type: none"> (1~9) Executes the function mapped to F1 to F9 (0) Space function (input blank)
Tab <i>TAB</i> 	Tab function
Period <i>PERIOD</i> 	In Default input mode <ul style="list-style-type: none"> Inputs a period In Blue functions input mode <ul style="list-style-type: none"> Input asterisk (*)

Using the Keypad


Use the Buttons

Functions

Function	Description	Key Combination
	Volume up	Fn + Up
	Volume down	Fn + Down
	Display brightness up	Fn + Left
	Display brightness down	Fn + Right

Screenshot

To take a screenshot, use one of the 3 ways as below.

- Press and hold **Power button + Down button** simultaneously.
- Press and hold the power button, and then tap **Screenshot** among the power menus.
- Tap the recent app button  below the screen, and tap **Screenshot**.

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

Using the Keypad

Program Buttons

Some buttons on the PM68 can be optimized as you want. To map the button to other functions from default,


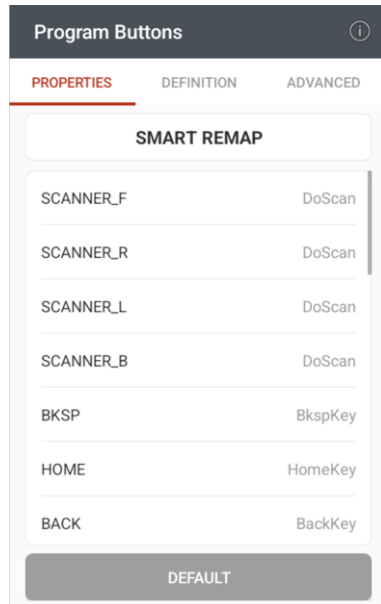
1. Navigate to **EmKit > Program Buttons** 
2. Tap **SMART REMAP**. And press a button you want to remap.

Figure 54 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


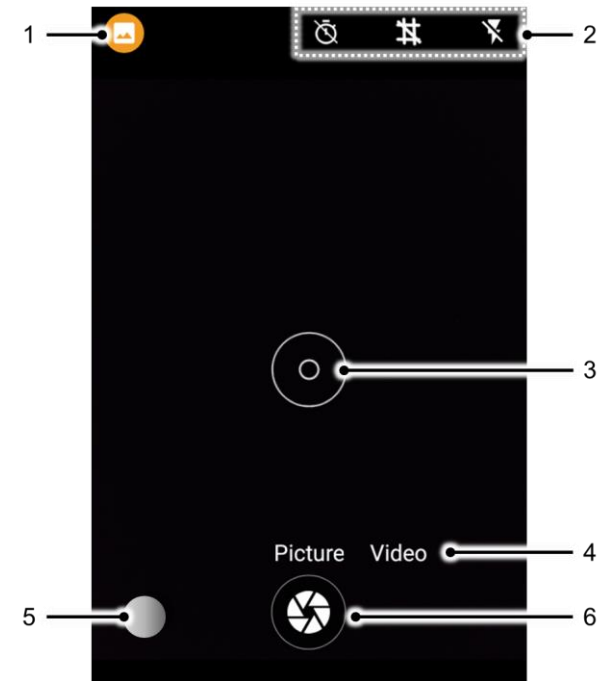



To use the camera, open App drawer and tap Camera application . Figure 55 오류! 참조 원본을 찾을 수 없습니다. is a main screen of Camera application.

Figure 55 Camera main screen




No	Name	Description
1	Modes	Select a mode depending on the target (normal / QR code)
2	Advanced camera option	 : Set timer (2 / 5 / 10 seconds)  : Display the grid on the screen  : Set flash mode (Activate / Deactivate / Auto mode)
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 your 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 turn it on.




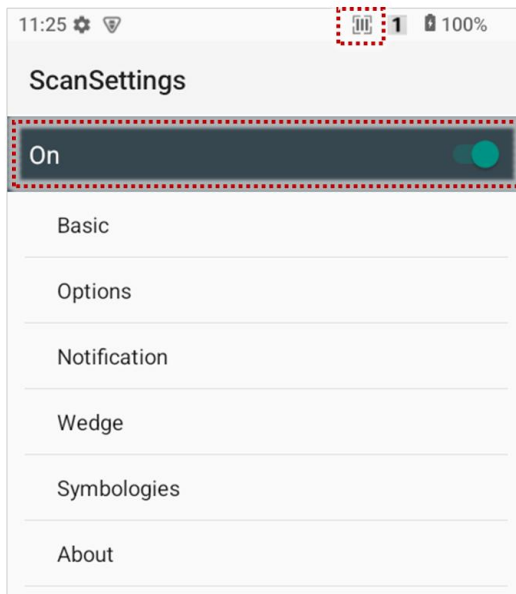
1. Go to **EmKit**  or **Settings**  and tap **ScanSettings**.
2. Tap toggle button to turn on/off the barcode scanner.
3. Check if the scanner icon  is placed on Status bar.

Figure 56 Turn on scanner



Scanner

ScanSettings

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

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

This chapter describes the key features of each menu.

Basic

Control the scanner's basic options and wedge mode, or configure the IP Send feature that sends the decoded data through the IP address.

1. Scanning

- Scan mode
 - Single scan: Scan a barcode by one triggering.
 - Multi scan: Scan multiple barcodes by one triggering.
 - Auto scan: Automatically activate scanning every specific time interval after first triggering.
 - Continuous scan: Scan barcodes continuously during a triggering.
- Trigger timeout: Set timeout that the trigger keeps turning on until a barcode is read.
- Touch scan: Use a scan button on the screen. You can place the button in any position you want on the screen.

2. Wedge mode

- Result type: Select the way to deliver the decoded data.
 - User Message: Deliver data using API in the SDK.
 - Keyboard Event (Multiple / Single): Deliver data using keyboard events like typing the keyboard.
 - Clipboard (KEYCODE_PASTE / Ctrl + V): Deliver data to clipboard and get by paste function.
 - Intent Broadcast: Deliver data using an intent pre-defined by Point Mobile.
 - Custom Intent: Deliver data using customized intent.
- Terminator: Select terminator on the end of the decoded data. (None / Space / Tab / LF / Tap & LF)
- Intercharacter delay: Set delay time between each character of the decoded data.
(Only available when the Result type is set as Keyboard Event (Single).)

Scanner

Options

Control the options related to the scan action and decoding.

- Center window: Scan the only barcode located near the center of the captured rectangle section.
- Clear Data: The newly decoded data will replace the existing data on the input field.
(Only available when the Result type is set as Keyboard Event or Clipboard types.)
- Aimer: Turn on or off the aimer.
- Illumination: Turn on or off the illumination (bright LED light).

Notification

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

- Read fail: Enable or Disable the scan failed notifications.
- Beep: Control the beep sound indicating the scan results.
- LED: Turn on or off the device's LED indicator indicating the scan results.
- Vibrator: Control the vibration indicating the scan results.

Wedge

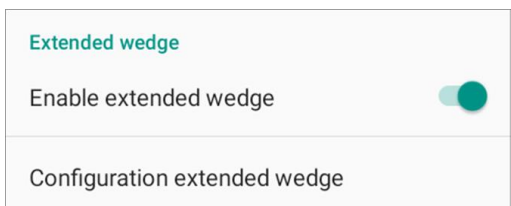
Set the Wedge settings

- Prefix: Set the prefix to be added in front of the decoded data.
- Suffix: Set the suffix to be added at the end of the decoded data.
- Extended Wedge

Extended wedge

PM68 supports Extended wedge that allows to manipulate the decoded data by custom rules. Tap **Enable extended wedge** toggle switch and then set a rule in **Configuration extended wedge**.

Figure 57 ScanSettings - Extended wedge

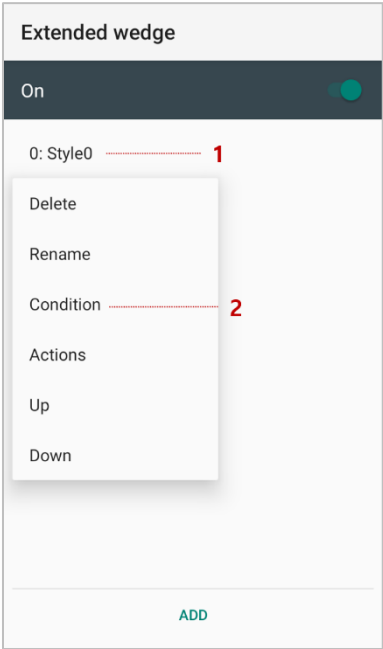


Scanner

For example, make a rule that add a string “*Point Mobile*” at the start of decoded data whenever decoding CODE128.

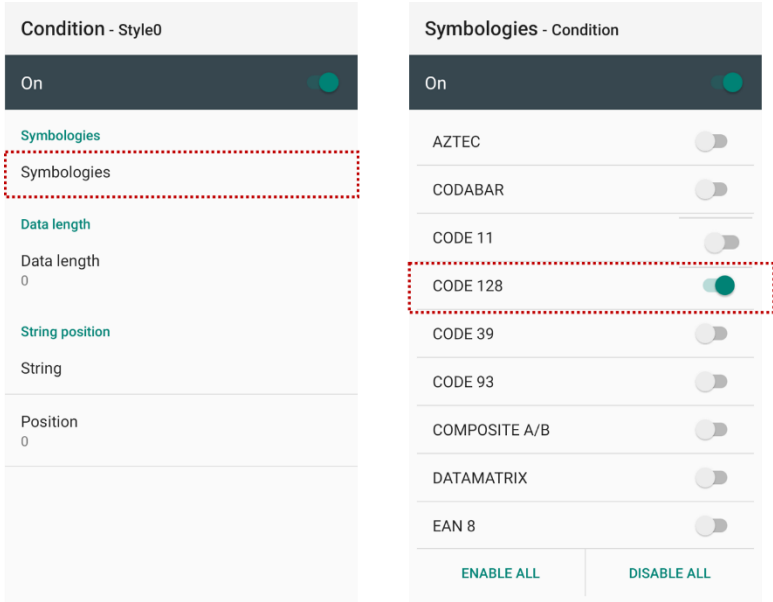
- 1. Tap **Style** (1) and select **Condition** (2).

Figure 58 Extended wedge example_1



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

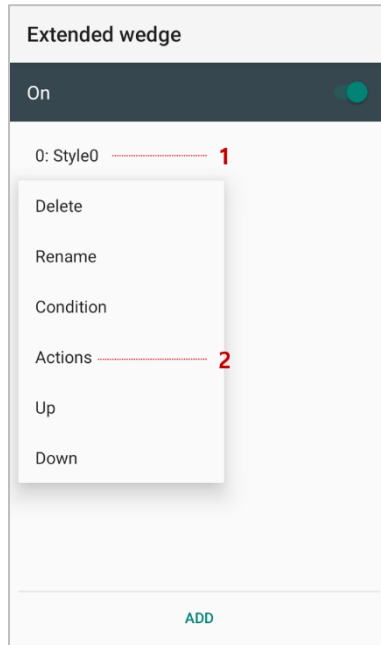
Figure 59 Extended wedge example_2



Scanner

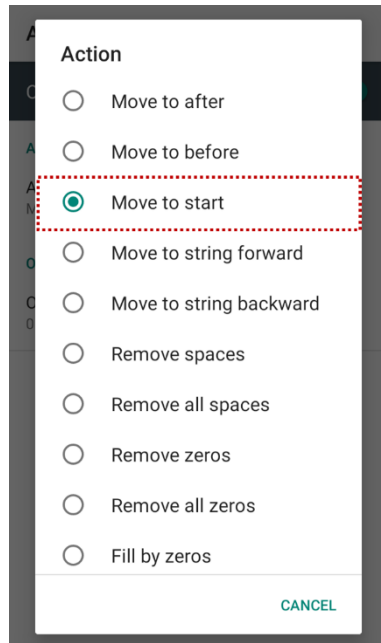
3. Tap **Style** (1) and select **Actions** (2).

Figure 60 Extended wedge example_3



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

Figure 61 Extended wedge example_4



Scanner

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

Figure 62 Extended wedge example_5

Action - Style0

On

Action

Action

Send string

Order

Order

0

Value

Value

Point Mobile

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

Before	After
<div><div><div>ScanDemo</div><div></div><div></div></div><div>Type : CODE 128</div><div>Result : ABC-abc-1234</div><div>Record : Success Count :: 1/1 Success Time :: 244 ms Avg Time :: 244 ms Min/Max Time :: 244 ms/244 ms</div><div><div><div><input type="checkbox"/> Continuous Scan</div><div><input type="checkbox"/> Save Log</div></div><div><div><input type="checkbox"/> Auto Scan</div><div><input checked="" type="checkbox"/> Beep Sound</div></div></div><div>Start scan</div></div>	<div><div><div>ScanDemo</div><div></div><div></div></div><div>Type : CODE 128</div><div>Result : Point MobileABC-abc-1234</div><div>Record : Success Count :: 1/1 Success Time :: 675 ms Avg Time :: 675 ms Min/Max Time :: 675 ms/675 ms</div><div><div><div><input type="checkbox"/> Continuous Scan</div><div><input type="checkbox"/> Save Log</div></div><div><div><input type="checkbox"/> Auto Scan</div><div><input checked="" type="checkbox"/> Beep Sound</div></div></div><div>Start scan</div></div>

Scanner

Symbologies

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

About

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

- Scanner type
- Scanner revision
- Scanner factory reset

Scanner

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 Keypad – 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.

E3140 Scanner

Center the cross-hair laser aimer over the barcode. You can tilt the aimer slightly for a comfortable angle to scan.

Figure 63 Aiming barcode (E3140)



N2601 Scanner

Center the green dot aimer over the barcode. Keep the distance that the green dot aimer can cover the barcode enough.

Figure 64 Aiming barcode (N2601)



Scanner

ScanDemo

Using ScanDemo app, demonstrate scanning feature.


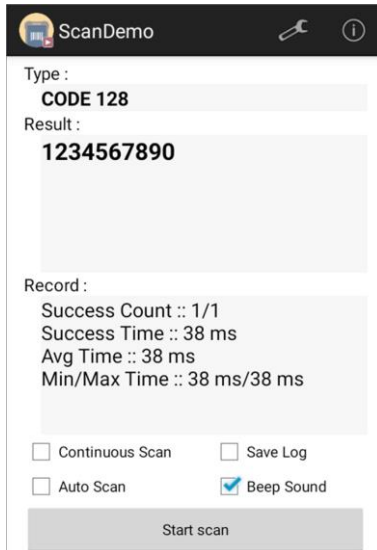
1. Execute **EmKit > ScanDemo** .
2. Scan a barcode by pressing the scan button on the device or tapping **Start scan** button on the screen.
3. Find scan result

Figure 65 ScanDemo



Data Communication

Mobile Network



Note: Mobile network is supported on PM68 WWAN (LTE) SKU only.

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 66 Mobile network icon




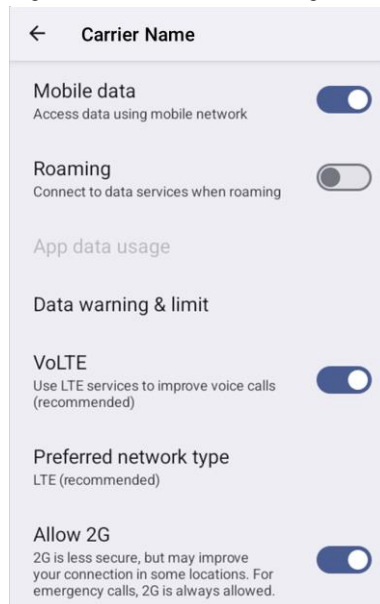
Find network information and adjust the network settings in **Settings**  > **Network & internet** > **Mobile network**.

Figure 67 Mobile network setting



Data Communication

Wi-Fi

To turn on and connect a Wi-Fi,


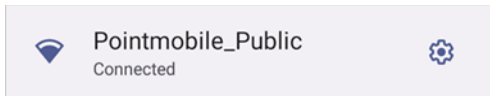
1. Go to **Settings**  > **Network & internet** > **Internet**.
2. Tap toggle button to enable Wi-Fi.
3. Device searches for nearby Wi-Fi signals and lists them in order of signal strength.
4. Select a Wi-Fi SSID to connect.
5. The message **Connected** under the SSID means the device complete to connect to the Wi-Fi.

Figure 68 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 69 Open Wi-Fi Network

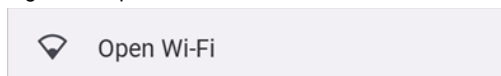
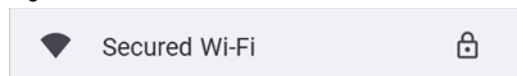
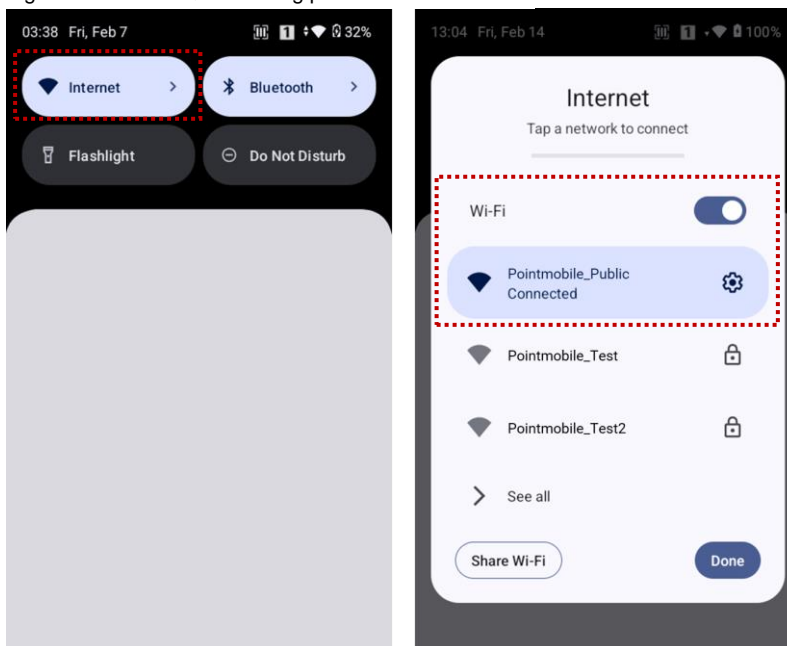


Figure 70 Secured Wi-Fi Network



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 71 Wi-Fi in Quick setting panel



Data Communication

Bluetooth

Turn on / off

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


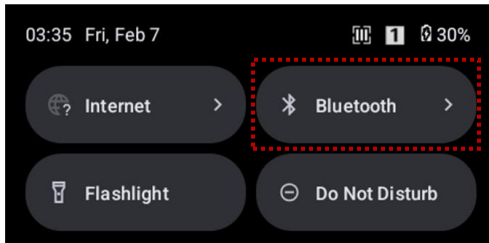
- Open quick setting panel and enable Bluetooth 

Figure 72 Bluetooth in Quick setting panel



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

Pair and Connect

To connect with a new device,


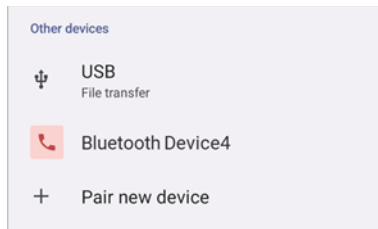
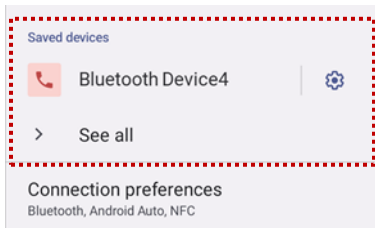
1. Go to **Settings**  > **Connected devices**.
2. Tap **Pair new device**.
(Bluetooth will be turned on automatically)
3. Select the device you want to pair among **Available devices** list.
4. Follow instructions on the screen (Pairing code or pairing confirmation dialog) and tap **PAIR**.
5. When the connection is succeeded, the connected device name is listed under the **Other devices** list.

Figure 73 Bluetooth currently connected




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

Figure 74 Previously connected devices



Data Communication

Unpair and Disconnect

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


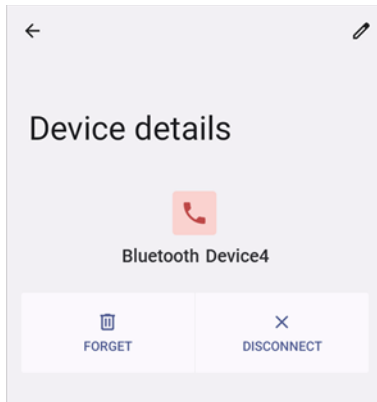
Or tap **DISCONNECT**  to disconnect only and not unpair.

Figure 75 Forget device



Change the Bluetooth device details


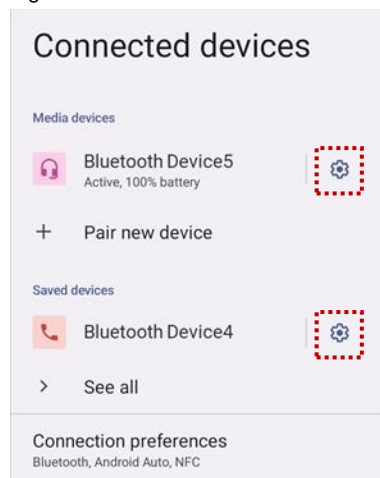

Tap the  icon next to the device name to see device details. If the device you want is not listed under the **Saved devices**, tap **See all**.

Figure 76 Bluetooth device detail



- To change the device's name, tap  on the top of the screen
- Turn other settings on or off (Available on some devices)

Data Communication

NFC

PM68's NFC antenna is located on the rear-top side of the device. Bring the NFC tag close to the antenna location as Figure 78.

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 77 PM68 NFC tapping area

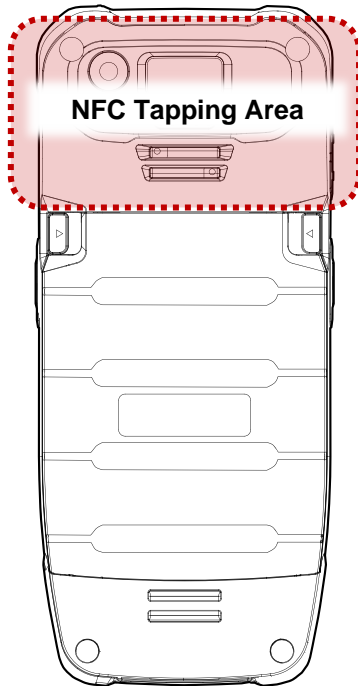


Figure 78 PM68 NFC tapping



RFID

PM68 can get RFID tag data through RF88 (sold separately).

PM68 and RF88 can be connected using Bluetooth or wire connection. And RFID Control app or custom application developed based on the Point Mobile's RFID SDK is required for the connection. You can download the RFID SDK and RFID Control app from [Service Portal](#).


If you want to install the PM68 onto the RFID reader, a PM68-dedicated sled bracket must be assembled on the RF88. Find more detail about connection and assembly from the RF88 User Manual.

System Maintenance

System Information

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

On Settings

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

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

On EmKit

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

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

System Maintenance

Check Device Health

EmHealthReport is a solution that provides the device's battery and eMMC health. Monitor the battery and eMMC status to foresight their lifetime or find the cause when there is a battery problem such as cannot charge the device or rapid battery discharge.


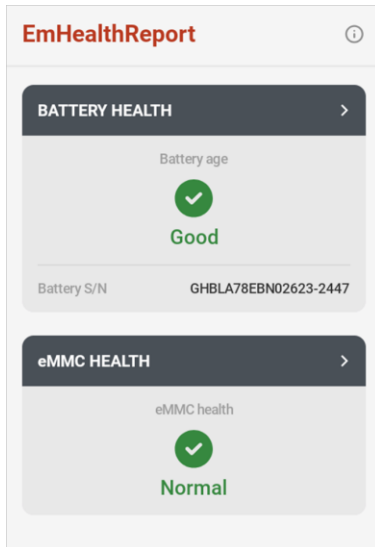
To use, open **EmKit** and launch **EmHealthReport** . You can see the simple device health information on the main screen. To find detailed information, tap each item.

Figure 79 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

(Refer to [Smart Charging](#))

- **eMMC Health**

- Pre-EOL Information
- Device life time estimation type A
- Device life time estimation type B

System Maintenance

OS Update

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



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

OS update via storage

To update the OS using storage,


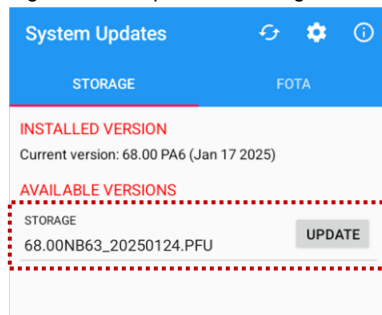
1. Download an OS image file into the root folder of microSD card or device internal storage.
2. (In case of using SD card) Insert SD card to the device and then turn the device on.
3. Go to **Settings**  > **System** > **System Update**.
4. Check if the OS image file shows up under **AVAILABLE VERSIONS**.

Figure 80 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.

OS update via OTG port

PM68 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 PM68.
4. Go to **Settings**  > **System** > **System Update**.
5. Check if the OS image file shows up under **AVAILABLE VERSIONS**.
6. Tap **UPDATE** to start the update process.

System Maintenance

OS update via FOTA

If PM68 can connect to a network, use the FOTA server for the update.


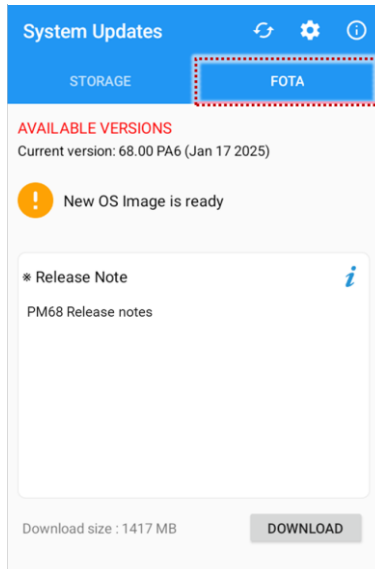
1. Connect the device to a network.
2. Go to **Settings**  > **System** > **System Update**.
3. Tap **FOTA** tab or Swipe left to move to **FOTA** tab.
4. If there is an OS version newer than device's one, the server shows the new OS information.

Figure 81 OS update via FOTA



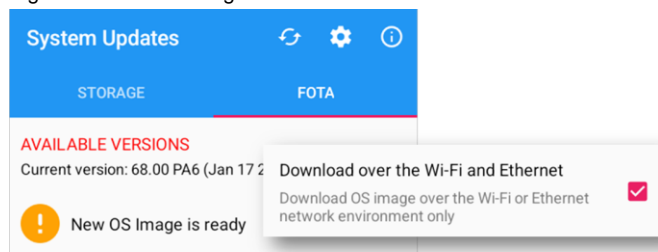
5. Tap **Download**.
6. Tap **OK** on the **OS Update** dialog to start to download the OS image file.
7. To complete the update, rebooting is required.

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



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 82 FOTA Settings



System Maintenance

Factory Data Reset


When PM68 operates abnormally 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.

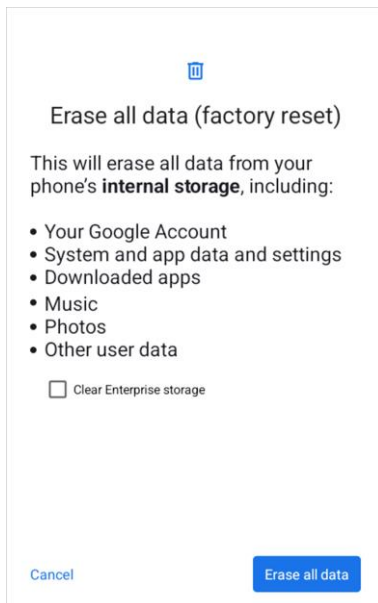
Factory data reset via Settings app

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**.

If you select the **Clear Enterprise storage**, the enterprise storage will be reset, too.

Figure 83 Factory data reset



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

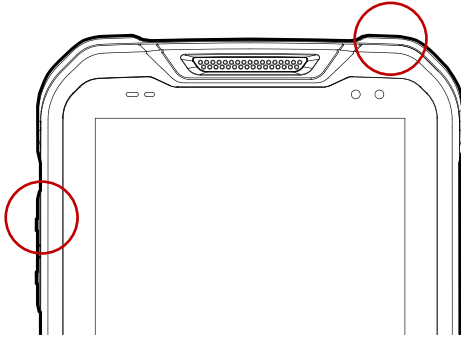
System Maintenance

Factory data reset via recovery mode

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

1. Press and hold **power button + volume up** buttons simultaneously when the PM68 is turned off.

Figure 84 Key combination for recovery mode



2. After short vibration, release the power button.
3. Select the **Recovery Mode** using the volume buttons.
 - **Move** – Volume up
 - **Select the menu** – Volume down
4. Using the buttons below, select **Wipe data/factory reset**.
 - **Move up/down** – Volume up/down
 - **Select the menu** – Power button or Enter key
5. Select **Factory data reset**.
6. After wiping the data, select **Reboot system now**.

Accessories

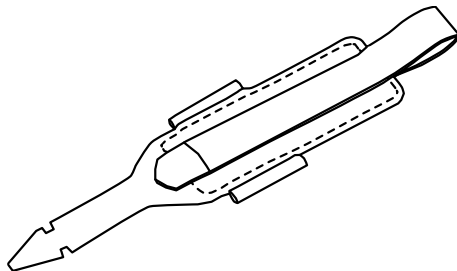
PM68 supports below accessories. All accessories except hand strap are sold separately.

Category	Accessory Name	Usage
Handy carry	Hand strap	Holds PM68 safe and easily
Protection case	Rugged boot	Protects PM68 from drop or damage
Sled type	Gun handle	Provides an ergonomic trigger button (Programmable button)
	RF88	Reading RFID tags
Charging cradle	SSCL (Single Slot Cradle Light)	Charges one PM68 device
	4SBC (4 Slot Battery Cradle)	Charges up to four pieces of PM68 batteries

Hand Strap

The hand strap is enclosed in the PM68 standard package. Attach the strap and you can hold the device firmly.

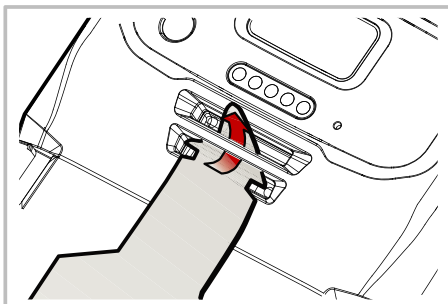
Figure 85 Hand strap



Attach hand strap

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

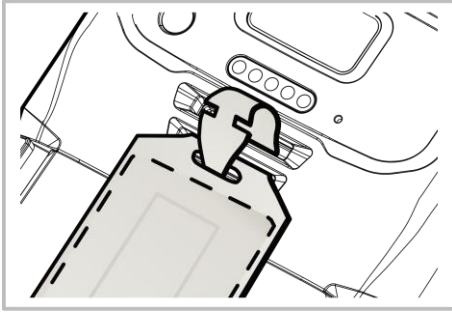
Figure 86 Attaching hand strap - 1



Accessories

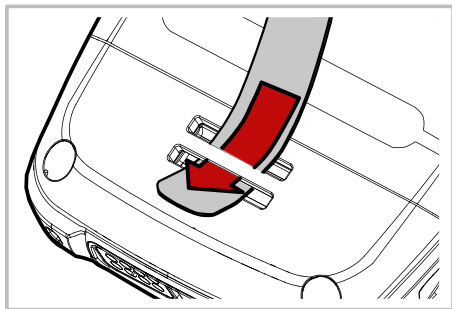
2. Insert the arrowhead into the small hole of the hand strap and pass it through the neck.

Figure 87 Attaching hand strap - 2



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

Figure 88 Attaching hand strap - 3



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

Figure 89 Hand strap attached



Accessories

Rugged boot

To protect the device from damage such as drop or tumble, attach a rugged boot to PM68.

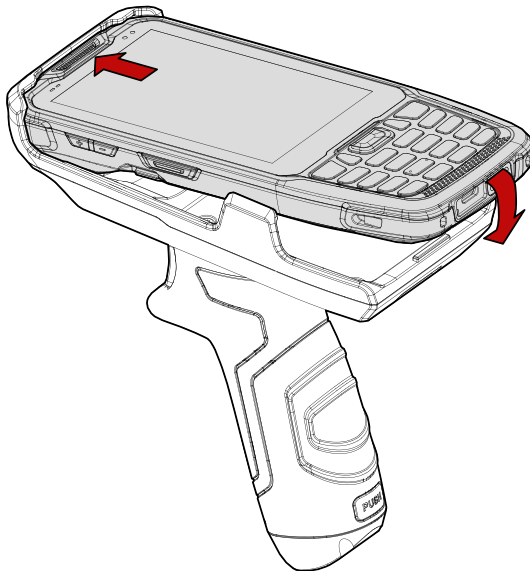
Gun Handle

Gun handle provides an additional programmable button, typically used to trigger the scanner. If you want to change the function mapped to the trigger button, access [Program Buttons](#) and set **SCANNER_B** to the desired function.

Attach gun handle

Attach PM68 to the gun handle from top side, and push the bottom firmly.

Figure 90 Attach PM68 to gun handle

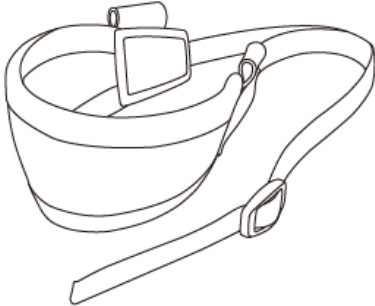


Accessories

Attach hand strap of gun handle

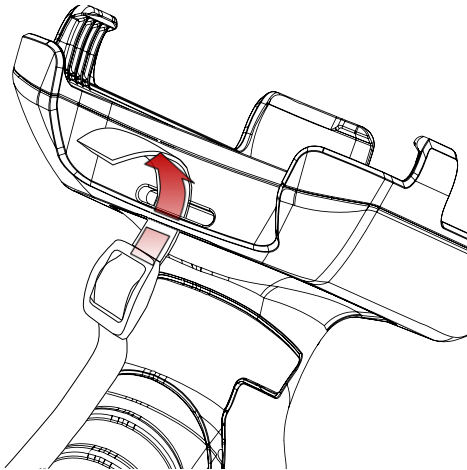
A hand strap is enclosed in the gun handle package. Attach the strap and carry the device more comfortably.

Figure 91 Gun handle - hand strap



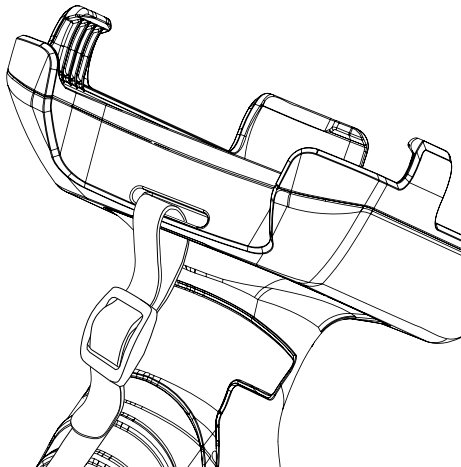
1. Thread the strap through the hole on the bottom side of the retention fixture.

Figure 92 Gun handle - Attach hand strap_1



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

Figure 93 Gun handle - Attach hand strap_2



Accessories

RF88 (RFID Sled)

PM68 can get RFID tag data through RF88. If you want to install the PM68 onto the RFID reader, a PM68-dedicated sled bracket must be assembled on the RF88 referring to the RF88 User Manual – Sled Bracket Replacement chapter.

For more detail, see RF88 User Manual.

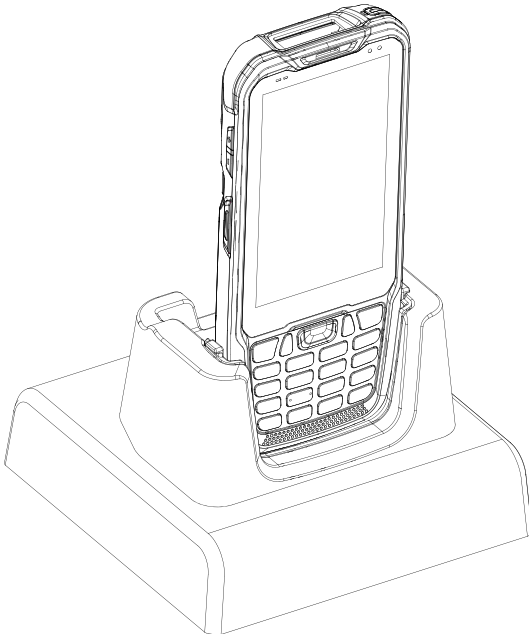
Charging cradle

Single Slot Cradle Light (SSCL)

SSC can charge the followings.

- PM68 only
- PM68 + Sled type accessory (gun handle or RF88) mounted

Figure 94 PM68 Single Slot Cradle Light (SSCL)



4SBC (4 Slot Battery Cradle)

4SBC has 4 battery slots so it can charge up to four pieces of PM68's battery simultaneously.

Safety Information

Battery Safety Information

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

Battery Safety Guidelines

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

Battery Charging Guidelines

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

Safety Information

Battery Storage / Disposal Guidelines

- Store the batteries in a clean, dry and ventilated environment within ambient temperature ranges of $20\pm5^{\circ}\text{C}$.
- For safety regulations, batteries are charged to below 20~30% of full capacity during production.
- When not using batteries for a long period, charge the battery for 30 minutes to 1 hour at least once every 6 months to prevent full discharge and keep the performance.
- Batteries should be stored separately when storing for long periods. Disconnect from any device, charger, or cradle.
- Dispose of used batteries promptly according to local disposal regulations.
- Do not dispose of the battery in fire. It may cause explosion.



Warning: The battery is consumable. Point Mobile provides a warranty for the battery for 12 months after purchase. If you suspect the battery swelling, change the battery immediately and contact Point Mobile.



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