



For Android™ 13

Enterprise Mobility

**PM452**

User Manual

# Instruction

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This manual provides information about basic features and using the PM452. 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     | 27 Jun 2024 | Initial release                  |
| v1.1     | 02 Jul 2024 | Removed unsupported feature icon |
| v1.2     | 15 Jul 2024 | Updated NFC tapping area figure  |
|          |             |                                  |

# Introduction

## PM452 SKUs

The contents of this manual can cover the following SKUs.

| Part Number    | Scanner | Keypad           | Network                        | Common                                             |
|----------------|---------|------------------|--------------------------------|----------------------------------------------------|
| P452E31B4DNE0C | N5703   | Function-Numeric | Wi-Fi 6E,<br>Bluetooth         | Android 13 GMS<br><br>RAM/Flash: 4G/64G<br><br>NFC |
| P452E31B4DNE0C | EX30    |                  |                                |                                                    |
| P452E3164DNE0C | N5703   | Alpha-Numeric    |                                |                                                    |
| P452E3164DNE0C | EX30    |                  |                                |                                                    |
| P452E3864DNE0C | N6803FR |                  |                                |                                                    |
| P452E3124DNE0C | N5703   | Numeric          |                                |                                                    |
| P452E3124DNE0C | EX30    |                  |                                |                                                    |
| P452E3824DNE0C | N6803FR |                  |                                |                                                    |
| P452E61B4DNE0C | N5703   | Function-Numeric | LTE,<br>Wi-Fi 6E,<br>Bluetooth |                                                    |
| P452E61B4DNE0C | EX30    |                  |                                |                                                    |
| P452E6164DNE0C | N5703   | Alpha-Numeric    |                                |                                                    |
| P452E6164DNE0C | EX30    |                  |                                |                                                    |
| P452E6864DNE0C | N6803FR |                  |                                |                                                    |
| P452E6124GNE0C | N5703   | Numeric          |                                |                                                    |
| P452E6124DNE0C | EX30    |                  |                                |                                                    |
| P452E6824DNE0C | N6803FR |                  |                                |                                                    |

# Table of Contents

---

|                                   |           |
|-----------------------------------|-----------|
| <b>INSTRUCTION.....</b>           | <b>1</b>  |
| Revision History .....            | 1         |
| PM452 SKUs .....                  | 2         |
| <b>GETTING STARTED.....</b>       | <b>5</b>  |
| Device Parts.....                 | 5         |
| Product Standard Accessories..... | 7         |
| Install SD & SIM cards .....      | 8         |
| Install & Remove Battery.....     | 11        |
| Charge the Device .....           | 14        |
| LED Indicator .....               | 18        |
| Turn On / Off the Device .....    | 19        |
| Use a Touch Screen .....          | 20        |
| <b>LEARNING THE BASICS .....</b>  | <b>23</b> |
| Setup Wizard .....                | 23        |
| Home Screen .....                 | 24        |
| MTP Connection with PC .....      | 32        |
| Manage the Files.....             | 33        |
| Lock the Screen .....             | 34        |
| Settings .....                    | 35        |
| <b>USING THE KEYPAD .....</b>     | <b>37</b> |
| Keypad.....                       | 37        |
| Use the Buttons .....             | 49        |
| <b>CAMERA .....</b>               | <b>52</b> |
| <b>SCANNER .....</b>              | <b>53</b> |

# Table of Contents

---

Turn on / off the Scanner .....53

ScanSettings.....54

Scan a Barcode .....63

ScanDemo .....64

**WIRELESS .....65**

    Mobile Network .....65

    Wi-Fi.....66

    Bluetooth.....67

    NFC.....70

**SYSTEM MAINTENANCE .....71**

    System Information .....71

    Check Device Health.....72

    OS Update .....73

    Factory Data Reset .....76

**ACCESSORIES .....77**

    Hand Strap.....77

    Gun Handle.....78

    Charging cradle.....81

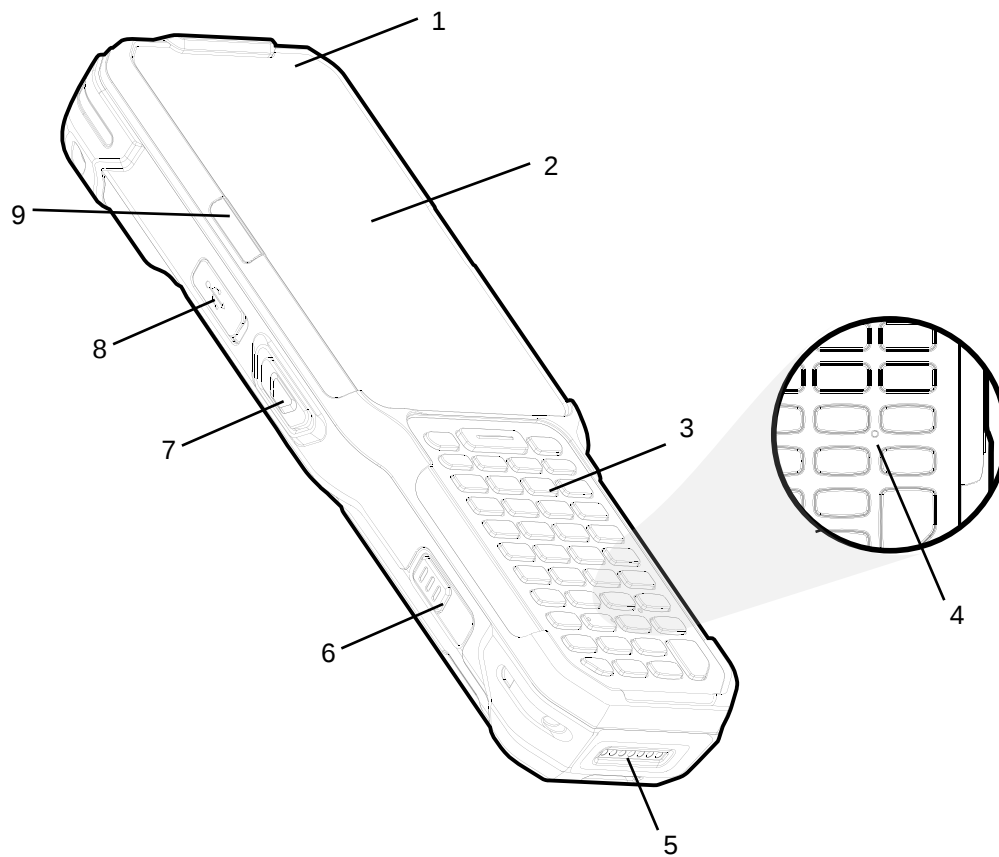
**SAFETY INFORMATION .....83**

    Battery Safety Information.....83

# Getting Started

## Device Parts

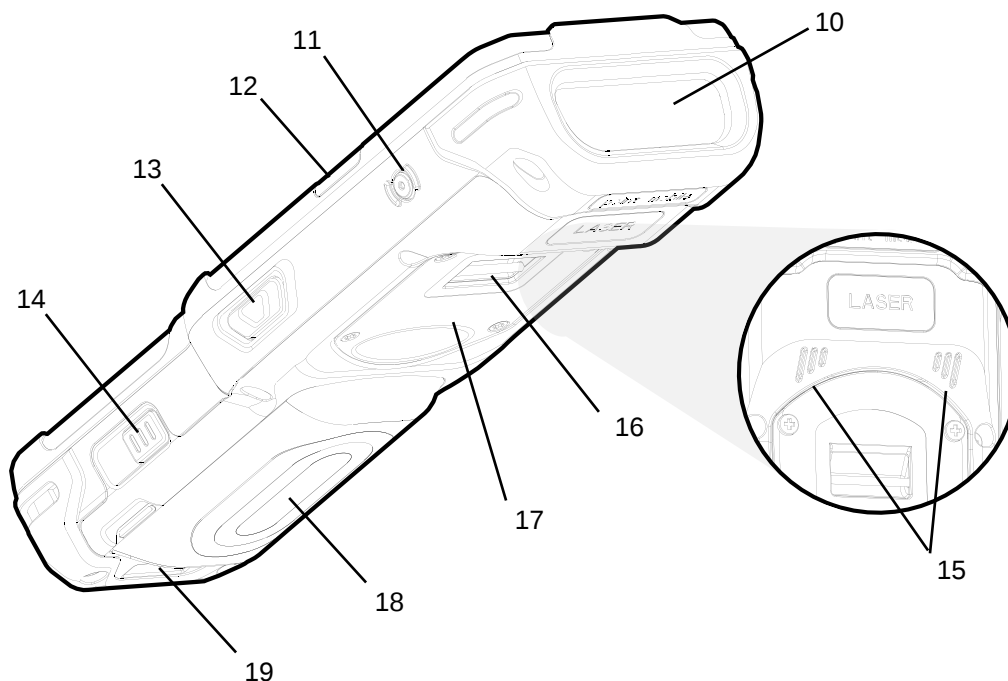
Figure 1 PM452 front + left + bottom view



| No | Name                          | Description                                                                                                      |
|----|-------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1  | LED indicator (Front)         | Indicate the power status and notification.<br>Find more details in <a href="#">LED indicator</a>                |
| 2  | Touch screen                  | Displays all operating screen                                                                                    |
| 3  | Keypad                        | Numeric / Alpha-Numeric / Function-Numeric Keypad<br>For more details, refer to <a href="#">Using the Keypad</a> |
| 4  | Microphone                    | Use for collecting sound                                                                                         |
| 5  | I/O connector for cradle      | Connector for charging and communication with cradle                                                             |
| 6  | Battery release button (Left) | Press the buttons in to release the battery                                                                      |
| 7  | Scan button (Left)            | Scan a barcode by pressing (Programmable button)                                                                 |
| 8  | USB connector with cap        | USB Type C connector for charging and data communication<br>and the connector is protected by the cap            |
| 9  | LED indicator (Center-Left)   | Indicate the barcode reading result.<br>Find more details in <a href="#">LED indicator</a>                       |

# Getting Started

Figure 2 PM452 rear + right + top view



| No | Name                           | Description                                                                                |
|----|--------------------------------|--------------------------------------------------------------------------------------------|
| 10 | Scanner & Top camera           | Scan a barcode & Take a picture                                                            |
| 11 | Power button                   | Turn on/off the device                                                                     |
| 12 | LED indicator (Center-Right)   | Indicate the barcode reading result.<br>Find more details in <a href="#">LED indicator</a> |
| 13 | Scan button (Right)            | Scan a barcode by pressing (Programmable button)                                           |
| 14 | Battery release button (Right) | Press the buttons in to release the battery                                                |
| 15 | Speaker                        | Ring system sound                                                                          |
| 16 | Hand strap hole (Top)          | Mount a hand strap                                                                         |
| 17 | Gun handle connect part        | Plug the gun handle. Refer to <a href="#">Gun Handle</a>                                   |
| 18 | Battery                        | Provide power                                                                              |
| 19 | Hand strap hole (Bottom)       | Mount a hand strap                                                                         |

# Getting Started

## Product Standard Accessories

The following items are in the product box.

| Accessory                                                                           | Name                |
|-------------------------------------------------------------------------------------|---------------------|
|    | Battery pack        |
|    | Charger             |
|    | AC plug             |
|   | Stylus pen          |
|  | LCD protection film |
|  | Hand strap          |



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

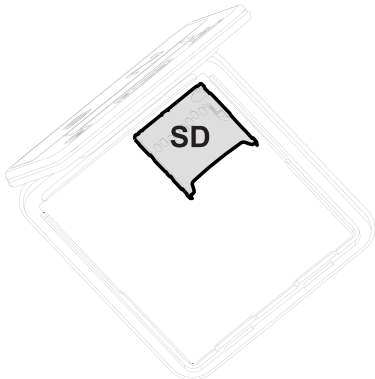
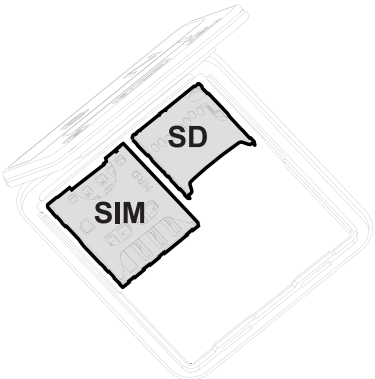
# Getting Started

## Install SD & SIM cards

PM452 supports

- microSD card
- Micro SIM card – WWAN (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.

| Wi-Fi SKU                                                                         | WWAN (LTE) SKU                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |

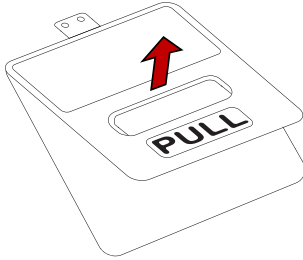
# Getting Started

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## Install SD card

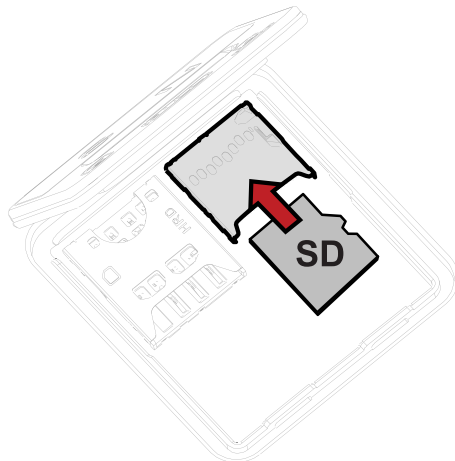
1. Remove the battery and open the card slot cover.

Figure 3 Card slot cover



2. Insert a microSD card with the contacts facing down.

Figure 4 Install a SD card



3. Close the card slot cover firmly.  
To remove the card, gently slide it out of slot.

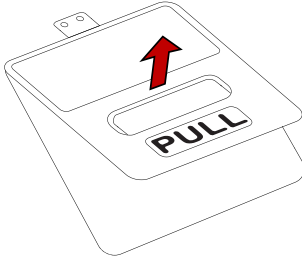
# Getting Started

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## Install SIM card

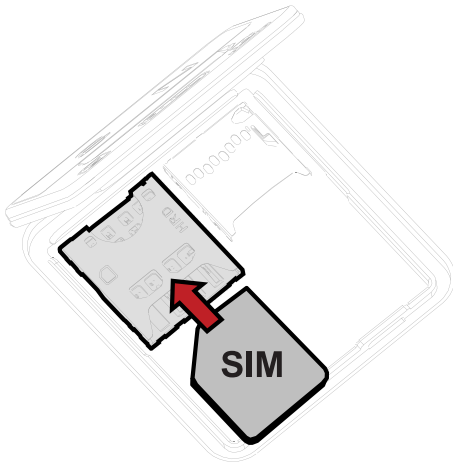
1. Remove the battery and open the card slot cover.

Figure 5 Card slot cover



2. Insert a micro SIM card with the contacts facing down.

Figure 6 Install a SIM card



3. Close the card slot cover firmly.  
To remove the card, gently slide it out of slot.

# Getting Started

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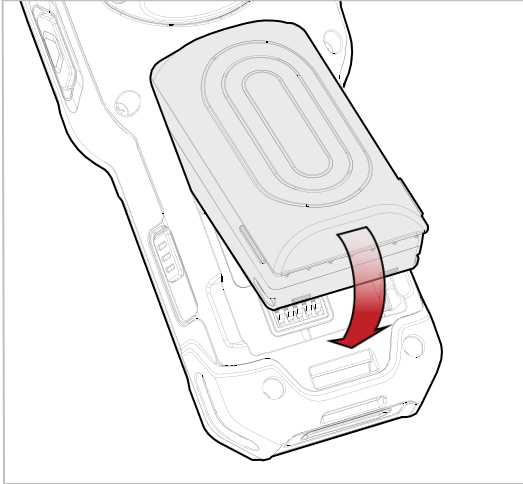
## Install & Remove Battery

### Install the battery

1. Insert the battery from the top (Opposite side of the gold contacts).
2. Push the battery's bottom firmly.

Confirm that the battery release buttons are completely outward.

Figure 7 Installing the battery



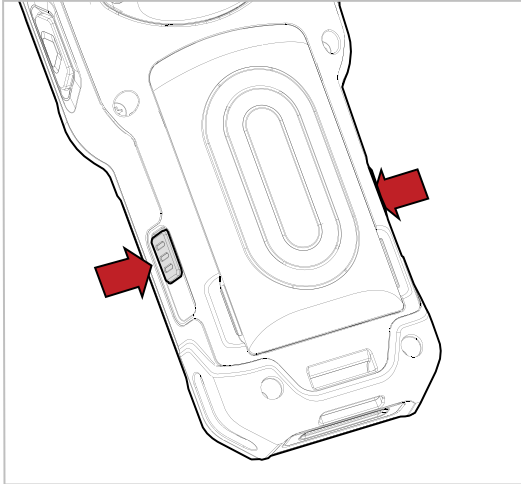
# Getting Started

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## Remove the battery

1. Press and hold the both sides of battery release buttons simultaneously.

Figure 8 Removing the battery - 1



2. While pressing the battery release button in, pull the battery's bottom side up.

Figure 9 Removing the battery - 2



# Getting Started

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## Battery hot swap

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

PM452 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.



**Notice:** 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

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## Charge the Device

Before using PM452, charge the device enough to use. PM452 can be charged with power adapter or charging cradle. For best charging performance and safety, follow the normal [charging temperature](#).



**Caution:** Always use an original charger and cable from Point Mobile. Other chargers and cables may damage PM452. 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:
  - Standard battery: 4,000mAh
  - Extended battery: 5,700mAh
- Rechargeable & Removable battery

## Charging temperature

**Charge devices and batteries in temperatures from 0 °C to 45 °C.** At out-of-normal range temperatures, the PM452 may stop charging for safety, and the power LED blinks red.

# Getting Started

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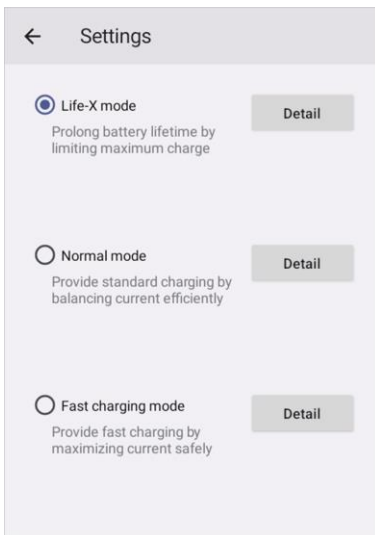
## Smart Charging

PM452 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 10 Smart Charging



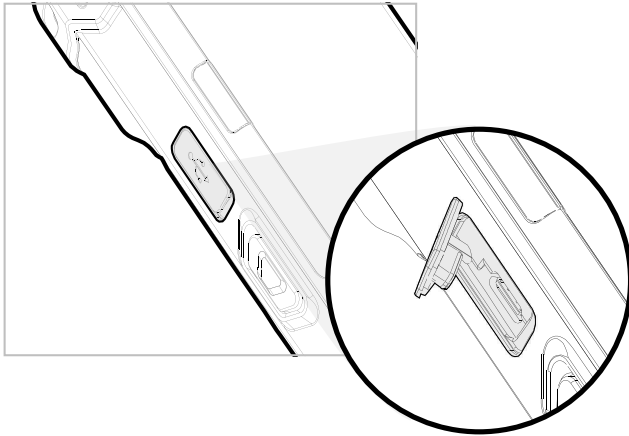
# Getting Started

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## Charge with power adapter

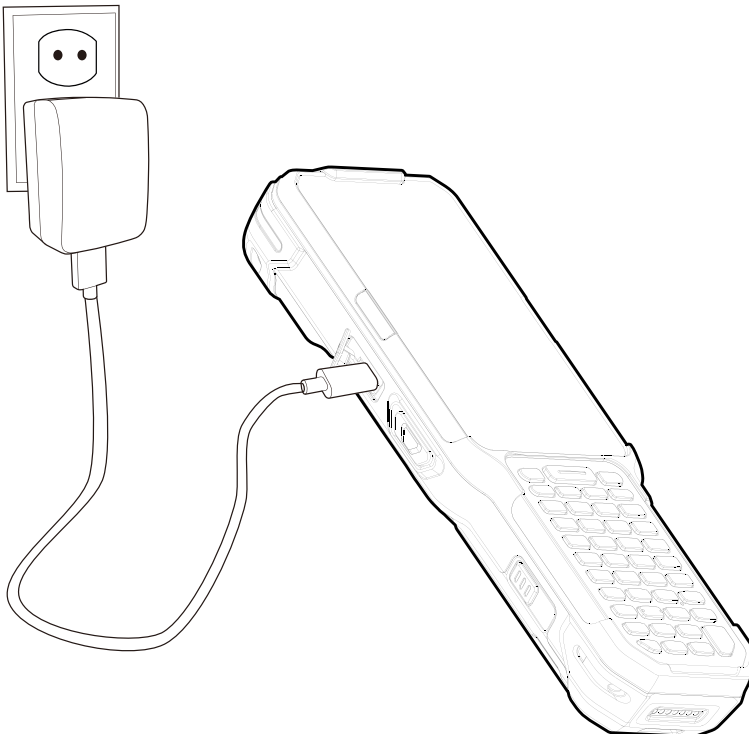
1. Assemble a proper country plug and charger, and rotate the plug clockwise to engage firmly.
2. Open the USB connector's cover cap on the PM452.

Figure 11 USB connector with cap



3. Connect the cable to the USB connector.
4. Provide power by plugging the power adapter to the wall socket.

Figure 12 PM452 charging with power adapter



# Getting Started

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## Charging Cradle

There are three types of charging cradle for PM452. Single slot (ethernet) cradle (SSC / SEC), 4 slot cradle (4SC), 4 slot battery cradle (4SBC). The cradles are sold separately and can be used in common with PM451.

### Single Slot Cradle (SSC) / Single Slot Ethernet Cradle (SEC)

SSC and SEC provide one PM452 charging slot and one PM452 battery charging slot.

### 4 Slot Cradle (4SC)

4SC provides four PM452 charging slots.

### 4 Slot Battery Cradle (4SBC)

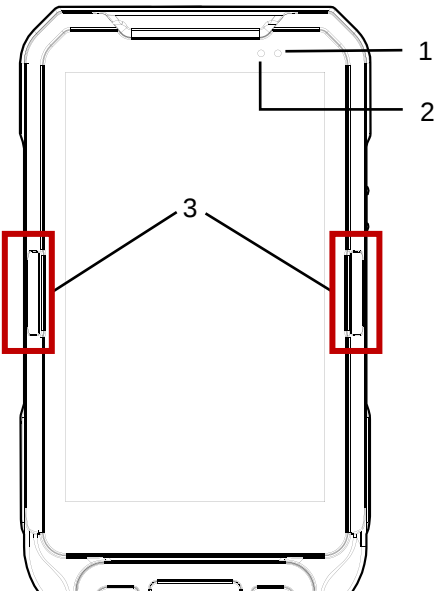
4SBC can charge up to 4 pieces of PM452 batteries at the same time.

# Getting Started

## LED Indicator

PM452 has two types of LED indicators.

Figure 13 PM452 LED indicators



| No | Indicator        | Status                                                                                                                     | Indication                                                                                                               |
|----|------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1  | Notification LED |  Solid red                              | Device entered Hot swap mode                                                                                             |
|    |                  |  Blinking blue                          | Notification existing                                                                                                    |
| 2  | Power LED        |  Solid green                            | Device is completely charged                                                                                             |
|    |                  |  Solid red                              | Device is charging<br>/ Battery is low                                                                                   |
|    |                  |  Blinking red                           | Charging temperature is out-of-normal range<br>(Refer to <a href="#">Charging temperature</a> )<br>/ Battery is very low |
|    |                  | <br>Alternately<br>blinking red & green | Cannot recognize the battery                                                                                             |
| 3  | Center LED       |  Red flash                              | Barcode reading failed                                                                                                   |
|    |                  |  Blue flash                             | Barcode reading success                                                                                                  |

# Getting Started

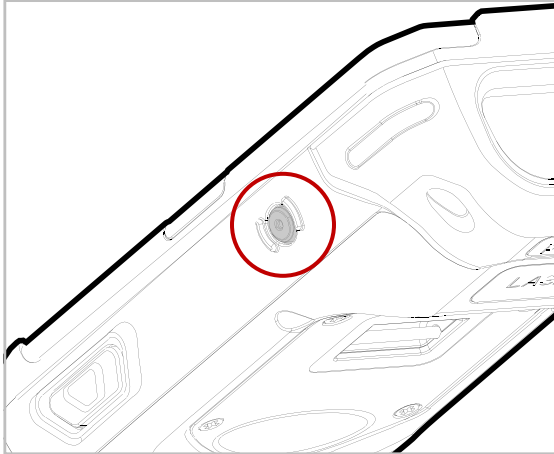
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## Turn On / Off the Device

To turn on the device,

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

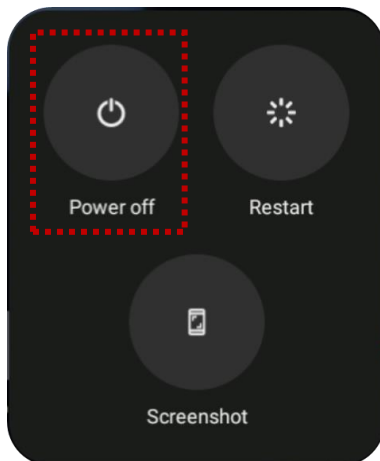
Figure 14 PM452 power button



To turn off the device,

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

Figure 15 Power menu - Power off

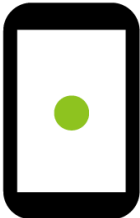
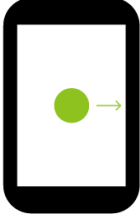
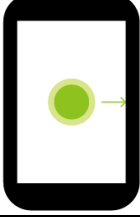
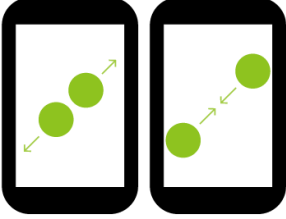


# Getting Started



## Use a Touch Screen

### Controlling the touch screen

| Gesture                                                                             | Description                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|    | <b>Tap</b><br>One-finger press                                                                                     |
|    | <b>Long-press</b><br>One-finger press, wait, lift for select action                                                |
|   | <b>Drag, Swipe, or Fling</b><br>One-finger press, move, lift for scroll or tilt action                             |
|  | <b>Long-press drag</b><br>One-finger press, wait, move, lift for pick up and move, or select multiple items action |
|  | <b>Pinch Open &amp; Close</b><br>Two-finger press, move outwards and inwards, lift for <b>zoom in / out</b> action |
|  | <b>Rotate</b><br>When PM452 is turning sideways, <b>screen orientation is changing</b>                             |



# Getting Started



## System navigation

### Navigation bar (Software button)

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

Figure 16 Navigation bar



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



# 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 17 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

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## Setup Wizard

When PM452 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 19 Setup Wizard (main)

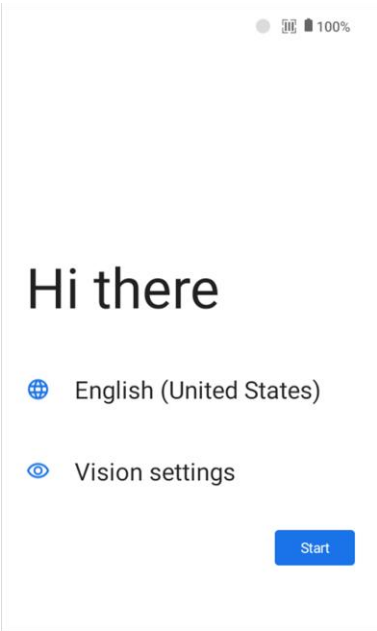
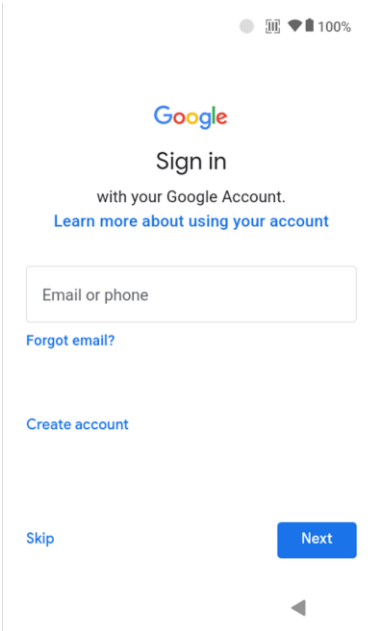


Figure 18 Setup Wizard (Google account)

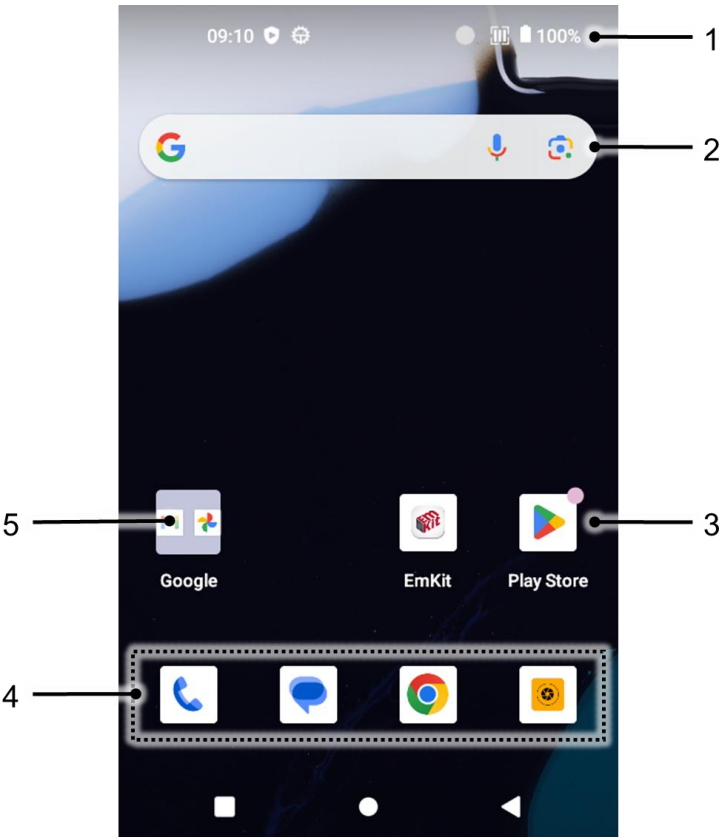


# Learning the Basics

## Home Screen

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

Figure 20 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<br>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                                                                                 | LTE connected                             | 3G                                                                                  | 3G connected                              |
|    | EDGE connected                            |                                                                                     |                                           |
|    | Strong signal                             |    | Weak signal                               |
|    | Data disabled                             |    | Connection issue                          |
|    | Data communication                        |    | No data connection                        |
|    | Hotspot enabled                           |    | Airplane mode                             |
|   | Connected to a Bluetooth device           |   | Connected to a Wi-Fi network              |
|  | 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                              |
|  | Scanner turned on                         |  | Scanner turned on, but trigger turned off |
|  | Numeric input mode                        |  | Lowercase alphabet input mode             |
|  | Uppercase alphabet input mode (Temporary) |  | Uppercase alphabet input mode (Fixed)     |
|  | Functions input mode (Temporary)          |  | Functions input mode (Fixed)              |
|  | CTRL functions mode                       |  | ALT functions mode                        |

# Learning the Basics

## Notification icons

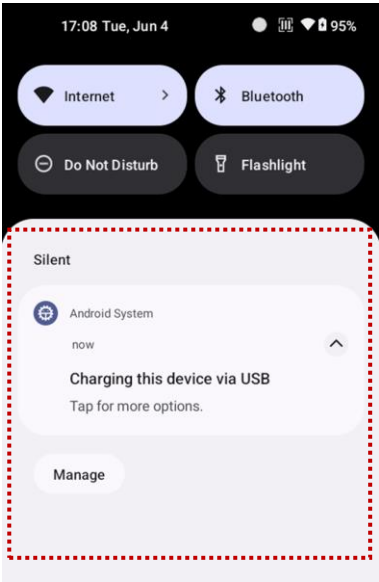
| Icon                                                                              | Description                  | Icon                                                                              | Description                  |
|-----------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------|------------------------------|
|  | 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 21 Notification panel



# Learning the Basics

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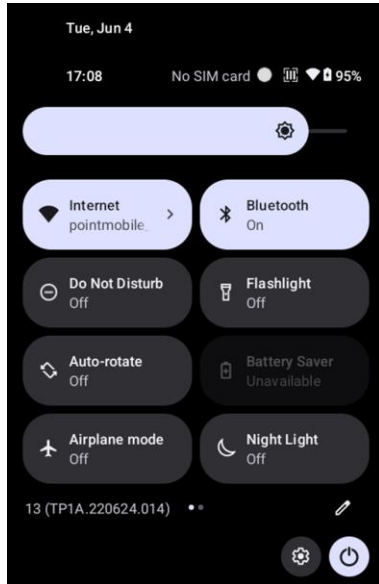
## Quick setting panel

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 22 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

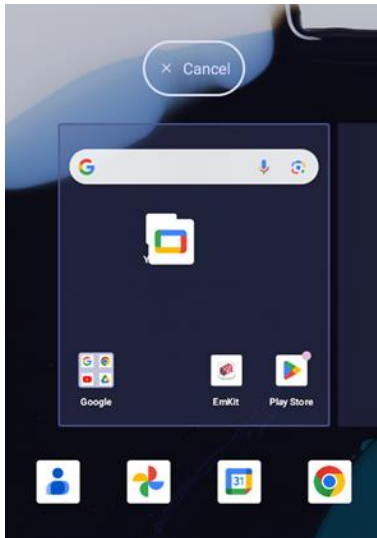
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## Apps & Widget

### App folder

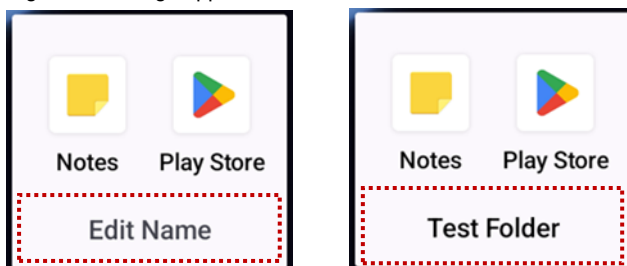
To create the app folder, long-press an app icon and drag it to another app icon.

Figure 23 Create app folder



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

Figure 24 Change app folder name



# Learning the Basics

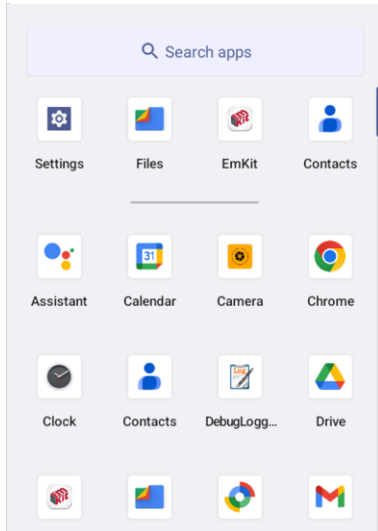
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## App drawer

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 25 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 26 Add an app to Favorites tray



# Learning the Basics

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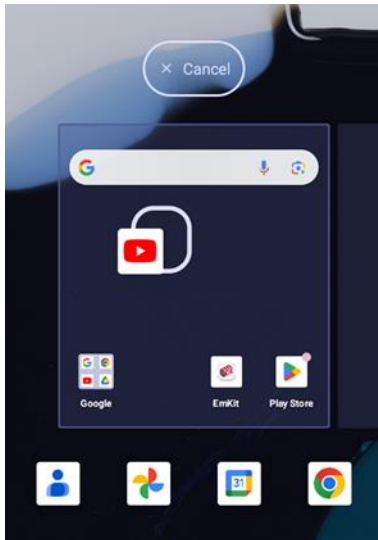
## Organize app in Home screen

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.)

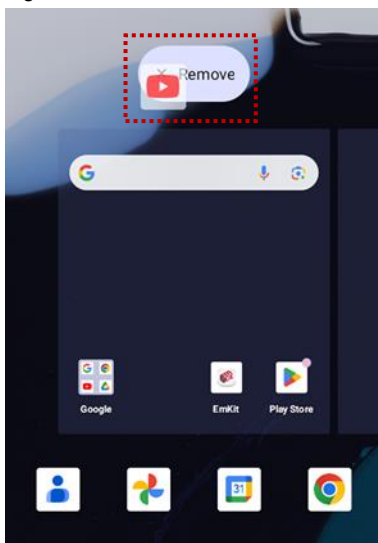
Figure 27 Place app in Home screen



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 28 Remove from Home screen



# Learning the Basics

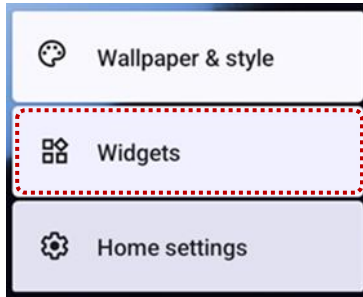
---

## 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 29 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.

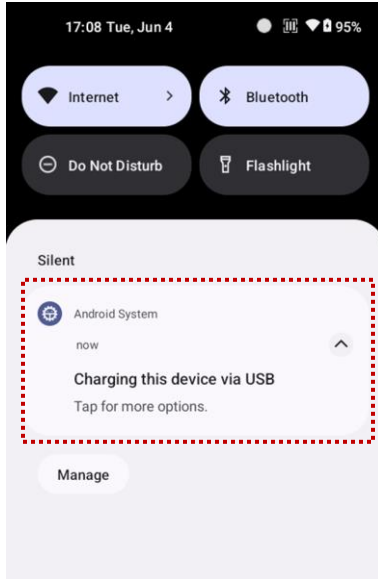
# Learning the Basics

## MTP Connection with PC

To transfer the files with a PC,

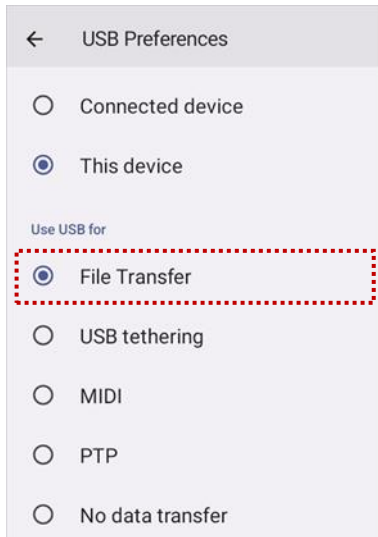
1. Connect the device to the PC via USB cable first.
2. Drag down Status bar and tap **Android System** notification to change USB preference option.

Figure 30 USB connection notification



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

Figure 31 USB Preferences



4. Now PC can recognize the connected device. Find PM452 device from file explorer of the PC.

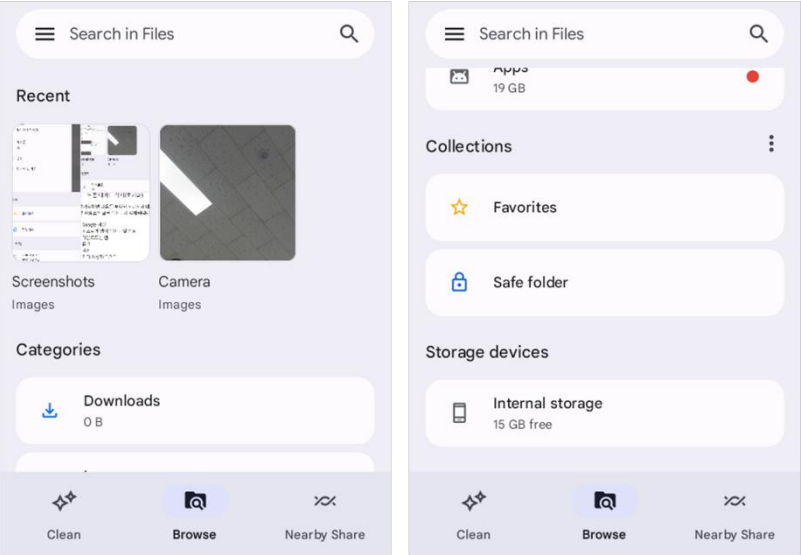
# Learning the Basics

## Manage the Files

Launch **Files**  to manage the files in the storage.

You can find the folders and files, move / copy them to other location, and delete them from the storage.

Figure 32 Files



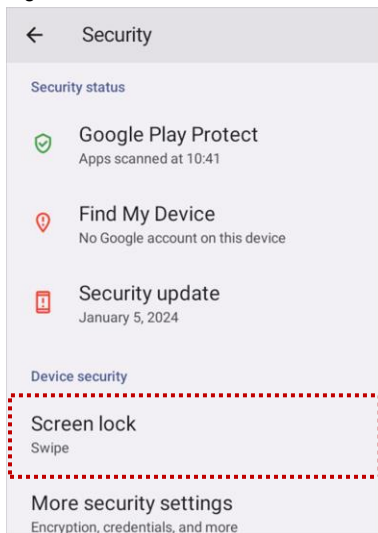
# Learning the Basics

## 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 33 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 34 Normal brightness level



Figure 35 High brightness level (higher than 80%)

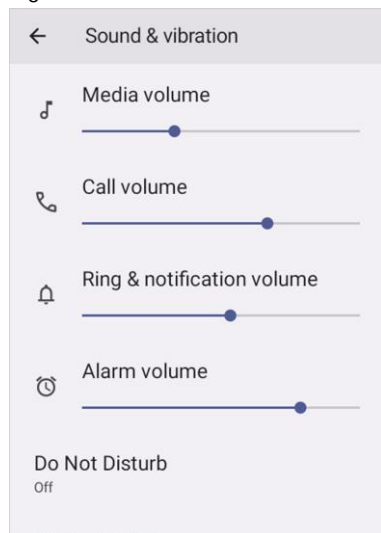


**Caution:** Using high brightness levels for long periods may cause eye strain and increase battery consumption.

## Adjust sound

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

Figure 36 Volume bars



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

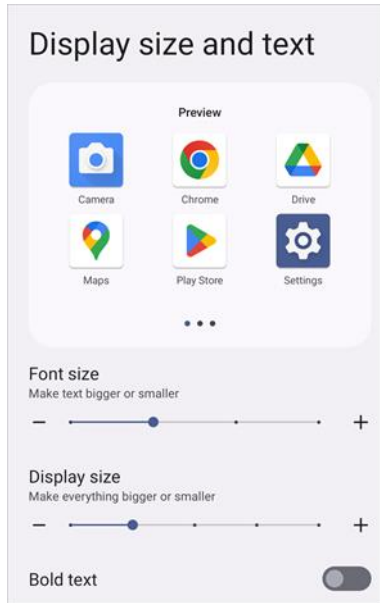
# Learning the Basics

## Adjust display and text size

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

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

Figure 37 Set display and text size



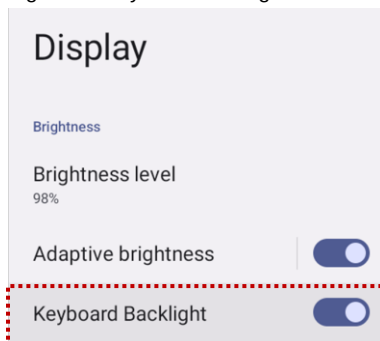
## Use Keyboard Backlight

The buttons in the keypad may not be visible in the dark. For this inconvenience, PM452 have keyboard backlight 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 38 Keyboard Backlight



# Using the Keypad

## Keypad

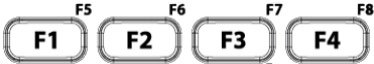
### Numeric Keypad

Figure 39 Numeric keypad



| Key                                                                                                                                                                         | Description                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>P1 / P2</div> <div>SOFT_LEFT / SOFT_RIGHT</div> <div></div>                         | <div>Programmable keys,</div> <div><ul style="list-style-type: none"><li>• P1 is the AppSwitch key by default</li><li>• P2 is the Back key by default</li></ul></div> |
| <div>Scan (Orange)</div> <div>SCANNER_F</div> <div></div>                                | <div>Scan the barcode</div>                                                                                                                                           |
| <div>Left / Up / Down / Right</div> <div>DPAD_LEFT / UP / DOWN / RIGHT</div> <div></div> | <div>Moves left / up / down / right</div>                                                                                                                             |
| <div>ESC</div> <div>ESCAPE</div> <div></div>                                             | <div>Escape function</div>                                                                                                                                            |

## Using the Keypad

| Key                                                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Backspace<br><i>BKSP</i><br>                   | Backspace function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TAB<br><i>TAB</i><br>                          | Tap function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alpha (Yellow)<br>                             | <p>Toggle key for Alphabet input mode.<br/>The keycode or function shown on the keypad in yellow will be inputted in Alphabet input mode.</p> <p>Press once</p> <ul style="list-style-type: none"> <li>Activates Alphabet input mode</li> <li>The  icon appears on status bar</li> </ul> <p>Press twice</p> <ul style="list-style-type: none"> <li>Back to default input mode</li> </ul>                                                                                                                                                                                                                              |
| Fn (Blue)<br>                                | <p>Toggle key for functions input mode.<br/>The function shown on the keypad in blue will be run in functions input mode.</p> <p>Press once</p> <ul style="list-style-type: none"> <li>Activates Functions input mode</li> <li>The  icon appears on status bar</li> </ul> <p>Press twice</p> <ul style="list-style-type: none"> <li>Maintains the functions input mode</li> <li>The  icon appears on status bar</li> </ul> <p>Press three times</p> <ul style="list-style-type: none"> <li>Back to default input mode</li> </ul> |
| Function 1 ~ 4 (5 ~ 8)<br><i>F1 ~ F8</i><br> | <p>In Default input mode</p> <ul style="list-style-type: none"> <li>Executes the function mapped to F1 ~ F4</li> </ul> <p>In Function input mode</p> <ul style="list-style-type: none"> <li>Execute the function mapped to F5 to F8</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

# Using the Keyapd

| Key                                                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Numeric 0 ~ 9<br/>0~9</p>              | <p>In Default input mode</p> <ul style="list-style-type: none"><li>Inputs 0 ~ 9</li></ul> <p>In Alphabet input mode</p> <ul style="list-style-type: none"><li>Inputs alphabet in uppercase or lowercase</li><li>Input blank (space function) (0)</li></ul> <p>In Function input mode (2, 3, 4, 6, 7, 9)</p> <ul style="list-style-type: none"><li>Controls screen brightness, keyboard backlight brightness, and volume</li><li>Refer to <a href="#">Functions</a> section for more detail.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>Period / Decimal Point<br/>PERIOD</p>  | <p>In Default input mode</p> <ul style="list-style-type: none"><li>Inputs a period (decimal point)</li></ul> <p>In Alphabet input mode</p> <ul style="list-style-type: none"><li>Inputs decimal comma</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Minus (-)</p>                         | <p>In Default input mode</p> <ul style="list-style-type: none"><li>Inputs minus (-) symbol or hyphen</li></ul> <p>In Function input mode</p> <ul style="list-style-type: none"><li>Inputs plus (+) symbol</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>Shift</p>                            | <p>Toggle key for shift combination input mode.</p> <p>In Default input mode</p> <ul style="list-style-type: none"><li>Press once<ul style="list-style-type: none"><li>Activates Shift combination mode temporarily</li><li>The  icon appears on status bar. Ex) </li></ul></li><li>Press twice<ul style="list-style-type: none"><li>Maintains the Shift combination mode</li><li>The  icon appears on status bar. Ex) </li></ul></li><li>Press three times<ul style="list-style-type: none"><li>Back to default input mode</li></ul></li></ul> <p>In Function input mode</p> <ul style="list-style-type: none"><li>Press once<ul style="list-style-type: none"><li>Activates CTRL function mode temporarily</li><li>The  icon appears on status bar.</li></ul></li><li>Press twice<ul style="list-style-type: none"><li>Back to Function input mode</li></ul></li></ul> |

# Using the Keyapd

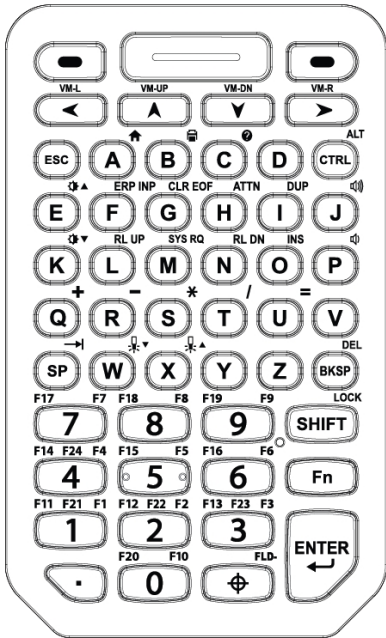
| Key                                                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |             |             |             |             |             |            |             |             |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|
| <div>Enter</div> <div>ENTER</div> <div></div> | <div>Enter function</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |             |             |             |             |             |            |             |             |
| <div>Symbol</div> <div></div>                 | <div>Press once</div> <ul style="list-style-type: none"><li>Inputs a symbol you set. By default, '~' will be inserted</li></ul> <div>Press twice</div> <ul style="list-style-type: none"><li>Provides a 3x3 grid on the screen with nine additional symbols. Choose a symbol you want.</li></ul> <table border="1"><tbody><tr><td><br/>~<br/>\u007e</td><td>@<br/>\u0040</td><td>-<br/>\u002d</td></tr><tr><td>£<br/>\u00a3</td><td>:<br/>\u003a</td><td>€<br/>\u20ac</td></tr><tr><td> <br/>\u007c</td><td>[<br/>\u005b</td><td>]<br/>\u005d</td></tr></tbody></table> <ul style="list-style-type: none"><li>You can change the configuration of the grid with Program Buttons. Refer to <a href="#">Symbol grid</a>.</li></ul> <div>Press three times</div> <ul style="list-style-type: none"><li>Hides the grid</li></ul> | <br>~<br>\u007e | @<br>\u0040 | -<br>\u002d | £<br>\u00a3 | :<br>\u003a | €<br>\u20ac | <br>\u007c | [<br>\u005b | ]<br>\u005d |
| <br>~<br>\u007e                               | @<br>\u0040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -<br>\u002d                                                                                      |             |             |             |             |             |            |             |             |
| £<br>\u00a3                                                                                                                    | :<br>\u003a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | €<br>\u20ac                                                                                      |             |             |             |             |             |            |             |             |
| <br>\u007c                                                                                                                     | [<br>\u005b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ]<br>\u005d                                                                                      |             |             |             |             |             |            |             |             |

# Using the Keypad



## Alpha-Numeric Keypad

Figure 40 Alpha-Numeric keypad

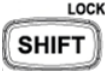


| Key                                                                                      | Description                                                                                                                                                       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>P1 / P2</div> <div>SOFT_LEFT / SOFT_RIGHT</div> <div></div>                         | <div>Programmable keys,</div> <div><ul style="list-style-type: none"><li>P1 is the AppSwitch key by default</li><li>P2 is the Back key by default</li></ul></div> |
| <div>Scan (Orange)</div> <div>SCANNER_F</div> <div></div>                                | <div>Scan the barcode</div>                                                                                                                                       |
| <div>Left / Up / Down / Right</div> <div>DPAD_LEFT / UP / DOWN / RIGHT</div> <div></div> | <div>Moves left / up / down / right</div>                                                                                                                         |
| <div>ESC</div> <div>ESCAPE</div> <div></div>                                             | <div>Escape function</div>                                                                                                                                        |

## Using the Keypad

| Key                                                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Alphabets</p>                                                 | <p>In Default input mode</p> <ul style="list-style-type: none"> <li>Inputs alphabet in uppercase or lowercase<br/>(If the shift combination mode is on, inputs uppercase)</li> </ul> <p>In Function input mode</p> <ul style="list-style-type: none"> <li>Controls screen brightness, keyboard backlight brightness, and volume (E, J, K, P, W, X)</li> <li>Input arithmetic operators (Q ~ U)</li> <li>Refer to <a href="#">Functions</a> section for more detail</li> </ul> <p>In CTRL function mode</p> <ul style="list-style-type: none"> <li>Executes the function mapped to the keys</li> </ul>         |
| <p>CTRL (Green)</p>                                              | <p>Toggle key for CTRL function or ALT function mode</p> <p>In Default input mode</p> <ul style="list-style-type: none"> <li>Activates the CTRL function mode</li> <li>The function shown on the keypad in green will be run</li> <li>The  icon appears on status bar</li> </ul> <p>In Function input mode</p> <ul style="list-style-type: none"> <li>Activates the ALT function mode</li> <li>The  icon appears on status bar</li> </ul> |
| <p>Space / TAB<br/>SPACE / TAB</p>                             | <p>In Default input mode</p> <ul style="list-style-type: none"> <li>Inputs blank (space function)</li> </ul> <p>In Function input mode</p> <ul style="list-style-type: none"> <li>Tab function</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>Backspace<br/>BACKSPACE</p>                                 | <p>In Default input mode</p> <ul style="list-style-type: none"> <li>Backspace function</li> </ul> <p>In Function input mode</p> <ul style="list-style-type: none"> <li>Delete function</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Numeric 0 ~ 9 / Function F1 ~ F24<br/>0 ~ 9 / F1 ~ F24</p>  | <p>In Default input mode</p> <ul style="list-style-type: none"> <li>Inputs 0 to 9</li> </ul> <p>In Function input mode</p> <ul style="list-style-type: none"> <li>Executes the function mapped to F1 to F10</li> </ul> <p>In Shift combination mode</p> <ul style="list-style-type: none"> <li>Executes the function mapped to F11 to F20</li> </ul>                                                                                                                                                                                                                                                          |

# Using the Keypad

| Key                                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p>In CTRL function mode</p> <ul style="list-style-type: none"><li>Executes the function mapped to F21 to F24</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Shift (Yellow)</p>     | <p>Toggle key for Shift combination mode.<br/>The uppercase alphabets will be inputted or the function shown on the keypad in yellow will be executed in Shift combination mode</p> <p>Press once</p> <ul style="list-style-type: none"><li>Activates Shift combination mode temporarily</li><li>The  icon appears on status bar. Ex) </li></ul> <p>Press twice</p> <ul style="list-style-type: none"><li>Maintains the Shift combination mode</li><li>The  icon appears on status bar. Ex) </li></ul> <p>Press three times</p> <ul style="list-style-type: none"><li>Back to default input mode</li></ul> |
| <p>Fn (Blue)</p>        | <p>Toggle key for functions input mode.<br/>The function shown on the keypad in blue will be run in functions input mode.</p> <p>Press once</p> <ul style="list-style-type: none"><li>Activates Functions input mode</li><li>The  icon appears on status bar</li></ul> <p>Press twice</p> <ul style="list-style-type: none"><li>Maintains the functions input mode</li><li>The  icon appears on status bar</li></ul> <p>Press three times</p> <ul style="list-style-type: none"><li>Back to default input mode</li></ul>                                                                                                                                                                                                                                                     |
| <p>Enter<br/>ENTER</p>  | <p>Enter function</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# Using the Keyapd

| Key                                                                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  |             |             |             |             |             |            |             |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|
| <div>Period / Decimal Point</div> <div>PERIOD</div> <div></div> | <div>Inputs a period (decimal point)</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |             |             |             |             |             |            |             |             |
| <div>Symbol</div> <div></div>                                   | <div>Press once</div> <ul style="list-style-type: none"><li>Inputs a symbol you set. By default, '~' will be inserted</li></ul> <div>Press twice</div> <ul style="list-style-type: none"><li>Provides a 3x3 grid on the screen with nine additional symbols. Choose a symbol you want.</li></ul> <table><tr><td><br/>~<br/>\u007e</td><td>@<br/>\u0040</td><td>-<br/>\u002d</td></tr><tr><td>£<br/>\u00a3</td><td>:<br/>\u003a</td><td>€<br/>\u20ac</td></tr><tr><td> <br/>\u007c</td><td>[<br/>\u005b</td><td>]<br/>\u005d</td></tr></table> <ul style="list-style-type: none"><li>You can change the configuration of the grid with Program Buttons. Refer to <a href="#">Symbol grid</a>.</li></ul> <div>Press three times</div> <ul style="list-style-type: none"><li>Hides the grid</li></ul> | <br>~<br>\u007e | @<br>\u0040 | -<br>\u002d | £<br>\u00a3 | :<br>\u003a | €<br>\u20ac | <br>\u007c | [<br>\u005b | ]<br>\u005d |
| <br>~<br>\u007e                                                 | @<br>\u0040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -<br>\u002d                                                                                      |             |             |             |             |             |            |             |             |
| £<br>\u00a3                                                                                                                                      | :<br>\u003a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | €<br>\u20ac                                                                                      |             |             |             |             |             |            |             |             |
| <br>\u007c                                                                                                                                       | [<br>\u005b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ]<br>\u005d                                                                                      |             |             |             |             |             |            |             |             |



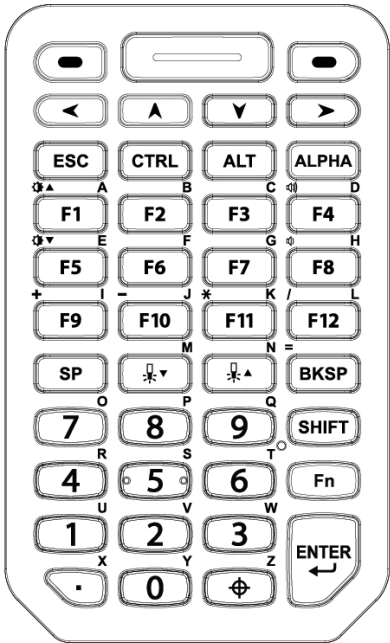
**Note:** The 5250 terminal emulation keypad configuration is only used when the 5250 emulation software runs on PM452.  
ex) ERP INP, CLR EOF, SYS RQ keys in CTRL function mode

# Using the Keyapd



## Function-Numeric Keypad

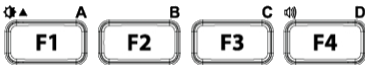
Figure 41 Function-Numeric keypad



| Key                                                                                      | Description                                                                                                                                                       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>P1 / P2</div> <div>SOFT_LEFT / SOFT_RIGHT</div> <div></div>                         | <div>Programmable keys,</div> <div><ul style="list-style-type: none"><li>P1 is the AppSwitch key by default</li><li>P2 is the Back key by default</li></ul></div> |
| <div>Scan (Orange)</div> <div>SCANNER_F</div> <div></div>                                | <div>Scan the barcode</div>                                                                                                                                       |
| <div>Left / Up / Down / Right</div> <div>DPAD_LEFT / UP / DOWN / RIGHT</div> <div></div> | <div>Moves left / up / down / right</div>                                                                                                                         |
| <div>ESC</div> <div>ESCAPE</div> <div></div>                                             | <div>Escape function</div>                                                                                                                                        |



## Using the Keypad

| Key                                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CTRL<br>                                 | Toggle key for the CTRL function mode<br>The  icon appears on status bar in the CTRL function mode                                                                                                                                                                                                                                                                                          |
| ALT<br>                                  | Toggle key for the ALT function mode<br>The  icon appears on status bar in the ALT function mode                                                                                                                                                                                                                                                                                            |
| Alpha (Yellow)<br>                       | Toggle key for Alphabet input mode.<br>The keycode shown on the keypad in yellow will be inputted in Alphabet input mode.<br><br>Press once <ul style="list-style-type: none"> <li>Activates Alphabet input mode</li> <li>The  icon appears on status bar</li> </ul> Press twice <ul style="list-style-type: none"> <li>Back to default input mode</li> </ul>                               |
| Function 1 ~ 12<br>F1 ~ F12<br>        | In Default input mode <ul style="list-style-type: none"> <li>Executes the function mapped to F1 ~ F12</li> </ul> In Alphabet input mode <ul style="list-style-type: none"> <li>Inputs alphabet A ~ L</li> </ul> In Function input mode <ul style="list-style-type: none"> <li>Controls screen brightness and volume (F1, F4, F5, F8)</li> <li>Inputs arithmetic operators (F9, F10, F11, F12)</li> <li>Refer to <a href="#">Functions</a> section for more detail</li> </ul> |
| Space<br>SPACE<br>                     | Space function                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Keyboard backlight brightness keys<br> | In Default input mode <ul style="list-style-type: none"> <li>Controls the keyboard backlight's brightness</li> <li>Refer to <a href="#">Functions</a> section for more detail.</li> </ul> In Alphabet input mode <ul style="list-style-type: none"> <li>Inputs alphabet M or N</li> </ul>                                                                                                                                                                                    |

# Using the Keypad

| Key                                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Backspace</div> <div>BKSP</div> <div></div>      | <div>In Default input mode</div> <div><ul style="list-style-type: none"><li>Backspace function</li></ul></div> <div>In Function input mode</div> <div><ul style="list-style-type: none"><li>Inputs arithmetic operator ‘=’</li></ul></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <div>Numeric 0 ~ 9</div> <div>0 ~ 9</div> <div></div> | <div>In Default input mode</div> <div><ul style="list-style-type: none"><li>Inputs 0 to 9</li></ul></div> <div>In Alphabet input mode</div> <div><ul style="list-style-type: none"><li>Inputs alphabet O to W or Y</li></ul></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div>Shift</div> <div></div>                         | <div>Toggle key for Shift combination mode.</div> <div>The uppercase alphabets will be inputted in the Shift combination mode</div> <div>Press once</div> <div><ul style="list-style-type: none"><li>Activates Shift combination mode temporarily</li><li>The  icon appears on status bar. Ex) </li></ul></div> <div>Press twice</div> <div><ul style="list-style-type: none"><li>Maintains the Shift combination mode</li><li>The  icon appears on status bar. Ex) </li></ul></div> <div>Press three times</div> <div><ul style="list-style-type: none"><li>Back to default input mode</li></ul></div> |
| <div>Fn (Blue)</div> <div></div>                    | <div>Toggle key for functions input mode.</div> <div>The function shown on the keypad in blue will be run in functions input mode.</div> <div>Press once</div> <div><ul style="list-style-type: none"><li>Activates Functions input mode</li><li>The  icon appears on status bar</li></ul></div> <div>Press twice</div> <div><ul style="list-style-type: none"><li>Maintains the functions input mode</li><li>The  icon appears on status bar</li></ul></div> <div>Press three times</div> <div><ul style="list-style-type: none"><li>Back to default input mode</li></ul></div>                                                                                                                                                                                              |

# Using the Keyapd

| Key                                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                    |             |             |             |             |             |            |             |             |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|
| Enter<br>ENTER<br>                   | Enter function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                    |             |             |             |             |             |            |             |             |
| Period / Decimal Point<br>PERIOD<br> | <p>In Default input mode</p> <ul style="list-style-type: none"><li>Inputs a period (decimal point)</li></ul> <p>In Alphabet input mode</p> <ul style="list-style-type: none"><li>Inputs alphabet X</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                    |             |             |             |             |             |            |             |             |
| Symbol<br>                         | <p>Press once</p> <ul style="list-style-type: none"><li>(In Default input mode) Inputs a symbol you set. By default, '~' will be inserted</li><li>(In Alphabet input mode) Inputs alphabet Z</li></ul> <p>Press twice</p> <ul style="list-style-type: none"><li>Provides a 3x3 grid on the screen with nine additional symbols. Choose a symbol you want.</li></ul> <table border="1"><tbody><tr><td><br/>~<br/>\u007e</td><td>@<br/>\u0040</td><td>-<br/>\u002d</td></tr><tr><td>£<br/>\u00a3</td><td>:<br/>\u003a</td><td>€<br/>\u20ac</td></tr><tr><td> <br/>\u007c</td><td>[<br/>\u005b</td><td>]<br/>\u005d</td></tr></tbody></table> <ul style="list-style-type: none"><li>You can change the configuration of the grid with Program Buttons. Refer to <a href="#">Symbol grid</a>.</li></ul> <p>Press three times</p> <ul style="list-style-type: none"><li>Hides the grid</li></ul> | <br>~<br>\u007e | @<br>\u0040 | -<br>\u002d | £<br>\u00a3 | :<br>\u003a | €<br>\u20ac | <br>\u007c | [<br>\u005b | ]<br>\u005d |
| <br>~<br>\u007e                    | @<br>\u0040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -<br>\u002d                                                                                        |             |             |             |             |             |            |             |             |
| £<br>\u00a3                                                                                                           | :<br>\u003a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | €<br>\u20ac                                                                                        |             |             |             |             |             |            |             |             |
| <br>\u007c                                                                                                            | [<br>\u005b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ]<br>\u005d                                                                                        |             |             |             |             |             |            |             |             |

# Using the Keyapd

## Use the Buttons

### Functions

| Function                                                                            | Description                        | Numeric    | Alpha-Numeric | Function-Numeric                   |
|-------------------------------------------------------------------------------------|------------------------------------|------------|---------------|------------------------------------|
|    | Volume down                        | Fn + 2     | Fn + P        | Fn + F8                            |
|    | Volume up                          | Fn + 3     | Fn + J        | Fn + F4                            |
|    | Display brightness down            | Fn + 4     | Fn + K        | Fn + F5                            |
|    | Display brightness up              | Fn + 7     | Fn + E        | Fn + F1                            |
|    | Keyboard backlight brightness down | Fn + 6     | Fn + W        | Keyboard backlight brightness down |
|    | Keyboard backlight brightness up   | Fn + 9     | Fn + X        | Keyboard backlight brightness up   |
| CTRL                                                                                | CTRL function mode                 | Fn + SHIFT | CTRL          | CTRL                               |
| ALT                                                                                 | ALT function mode                  | -          | Fn + CTRL     | ALT                                |
|  | Home screen                        | -          | CTRL + A      | -                                  |

### Screenshot

To take a screenshot, simultaneously press the **Power button + P1 key** (on the left side of the front scan button).