FPO

**FCC ID: A3LSMT867V**

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# User manual

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# Features

## Mobile continuity

Make and answer calls and text messages from your Galaxy devices. See **Call and message continuity** on page 89.

## S Pen

The S Pen is designed for special functions with Samsung Galaxy devices. See **S Pen** on page 23.

## Camera

The camera on your device has several unique features. See **Camera** on page 54.

## Meet Bixby

Bixby learns what you like to do and works with your favorite apps and services to help you get more done. See **Bixby** on page 31.

## Night mode

Use a darker theme to keep your eyes comfortable at night. See **Night mode** on page 98.

## Expandable storage

Expand storage with a supported microSD™ card. See **Memory card** on page 102.

## Security

Use your face or fingerprint to unlock your device. See **Flexible security** on page 33.

# Getting started

Front view

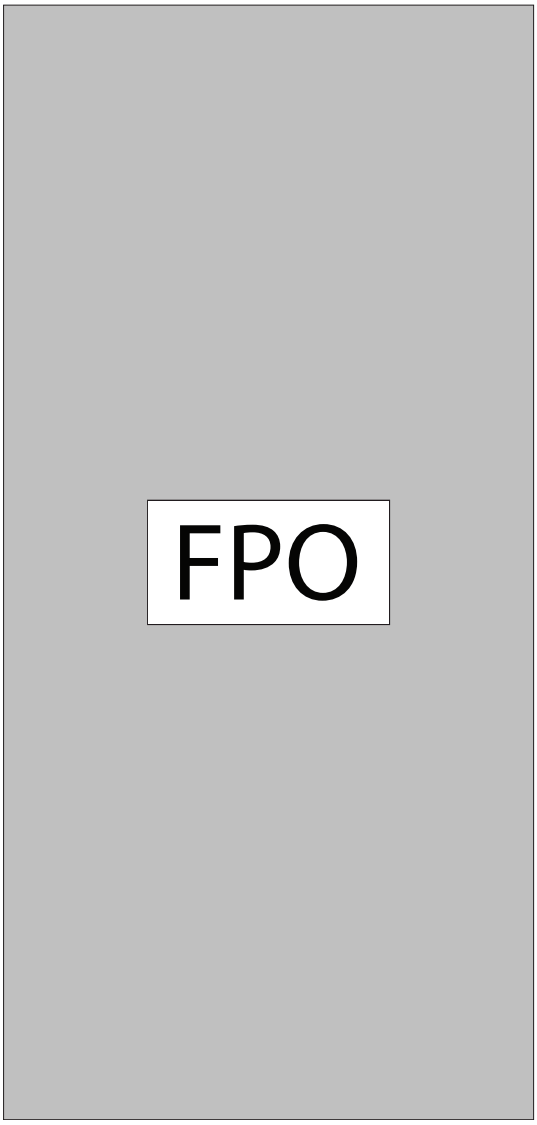
Back view

Assemble your device

Start using your device

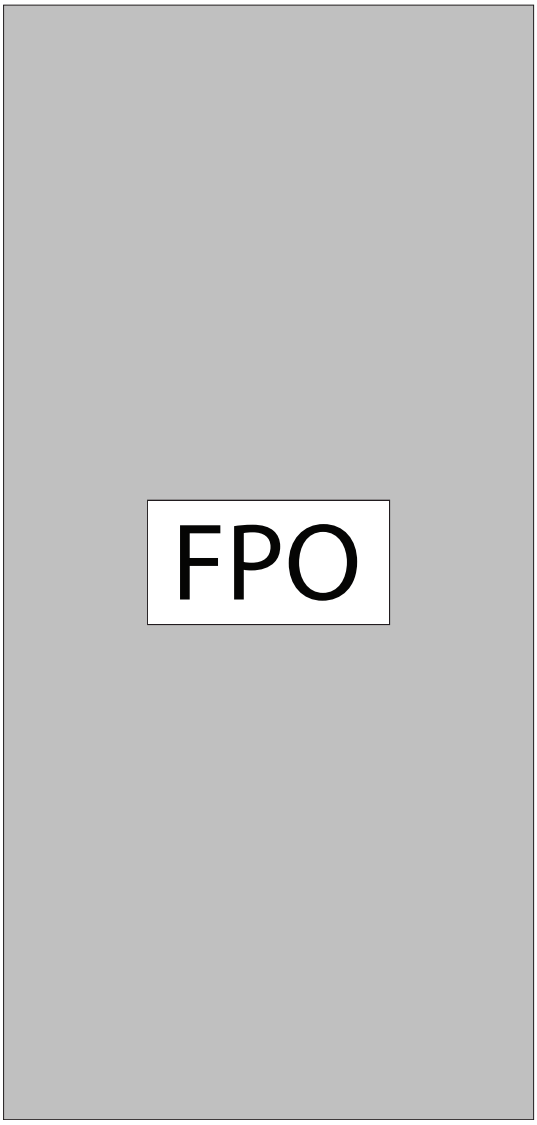
FPO

# Front view




Devices and software are constantly evolving — the illustrations you see here are for reference only.

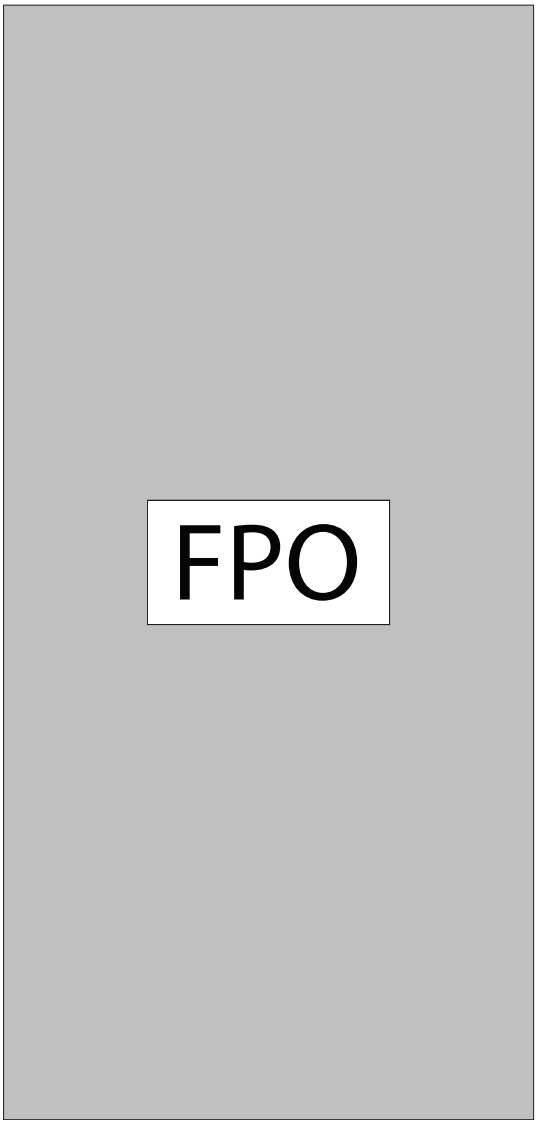
# Back view




Devices and software are constantly evolving — the illustrations you see here are for reference only.

# Assemble your device

Your device uses a nano-SIM card. A SIM card may be preinstalled, or you may be able to use your previous SIM card. Contact your carrier for more details.



# Charge the battery

Your device is powered by a rechargeable battery. A charger (charging head and USB Type-C cable) is included with the device for charging the battery from a power outlet.

While charging, the device and the charger may become hot and stop charging. This usually does not affect the device's lifespan or performance and is in the device's normal range of operation.

**TIP** Disconnect the charger from the device and wait for the device to cool down. For more information, visit **samsung.com/us/support/answer/ANS00076952**.

# Accessories

Supported accessories (sold separately) can be configured through Settings. This option may only appear after you have connected an accessory to your device.

Visit **samsung.com/us/mobile/mobile-accessories** to learn more.

- From Settings, tap **Advanced features** > **Accessories**.

# Start using your device

Use the Power key to turn your device on or off. Do not use the device if the body is cracked or broken. Use the device only after it has been repaired.

- Press and hold the **Power** key.
  - To turn the device off, press and hold the **Power** key, and tap **Power off**. Confirm when prompted.
  - To restart your device, press and hold the **Power** key, and tap **Restart**.

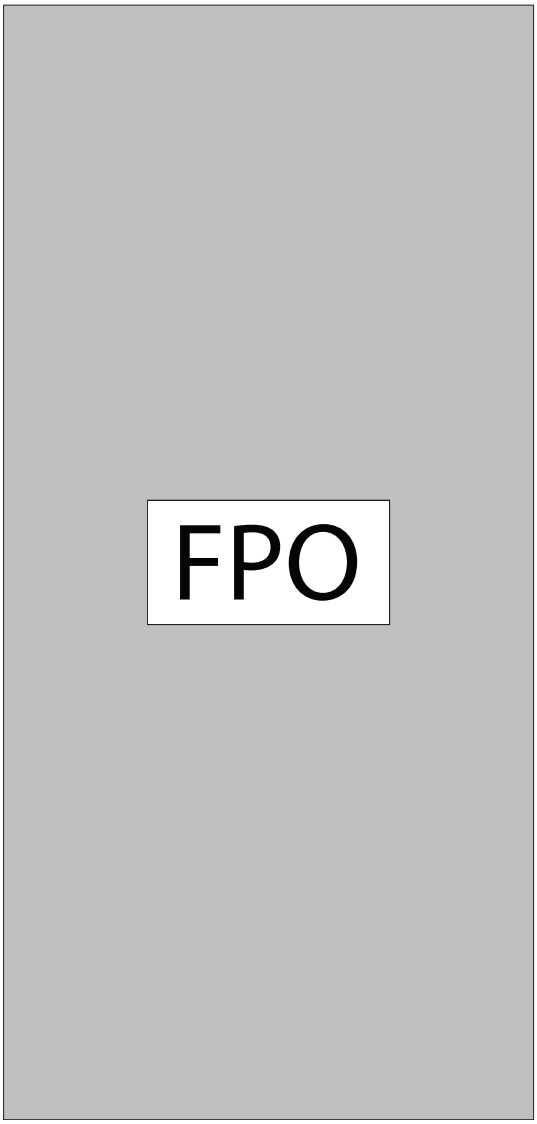
## Use the Setup Wizard

The first time you turn your device on, the Setup Wizard guides you through the basics of setting up your device.

Follow the prompts to choose a default language, connect to a Wi-Fi® network, set up accounts, choose location services, learn about your device's features, and more.

# Lock or unlock your device

Use your device's screen lock features to secure your device. By default, the device locks automatically when the screen times out. For more information about screen locks, see **Lock screen and security** on page 110.



# Accounts

Set up and manage your email accounts, your Google™ Account, and Samsung account.

**TIP** Accounts may support email, calendars, contacts, and other features. See your carrier for more information.

## Add a Google Account

Sign in to your Google Account to access your Google cloud storage, apps installed from your account, and make full use of your device's Android™ features.

1. From Settings, tap **Accounts and backup** > **Accounts**.
2. Tap **Add account** > **Google**.

**NOTE** When you sign in to a Google Account, Factory Reset Protection (FRP) is activated. FRP requires your Google Account information when resetting to factory settings. For more information, see **Factory reset protection** on page 109.

## Add a Samsung account

Sign in to your Samsung account to access exclusive Samsung content and make full use of Samsung apps.

1. From Settings, tap **Accounts and backup** > **Accounts**.
2. Tap **Add account** > **Samsung account**.

**TIP** To quickly access your Samsung account, from Settings tap **Samsung account**.

# Transfer data from an old device

Use Smart Switch™ to transfer contacts, photos, music, videos, messages, notes, calendars, and more from your old device. Smart Switch can transfer your data via USB cable, Wi-Fi, or computer.

Visit **samsung.com/us/support/owners/app/smart-switch** to learn more.

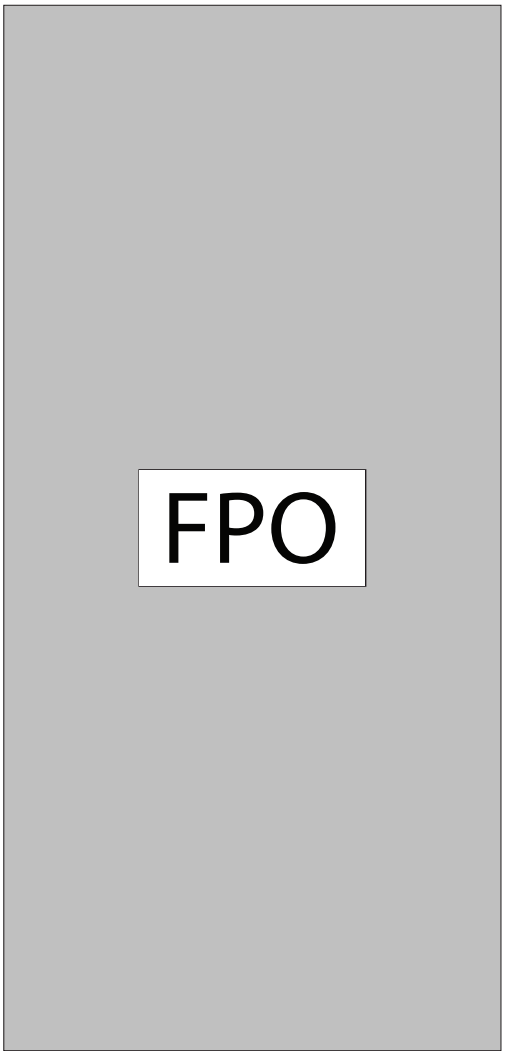
1. From Settings, tap 🔑 **Accounts and backup** > **Smart Switch**.
2. Follow the prompts and select the content to transfer.

Visit **samsung.com/smartswitch** for more information.

# Navigation

A touch screen responds best to a light touch from the pad of your finger or a capacitive stylus. Using excessive force or a metallic object on the touch screen may damage the tempered glass surface and void the warranty.

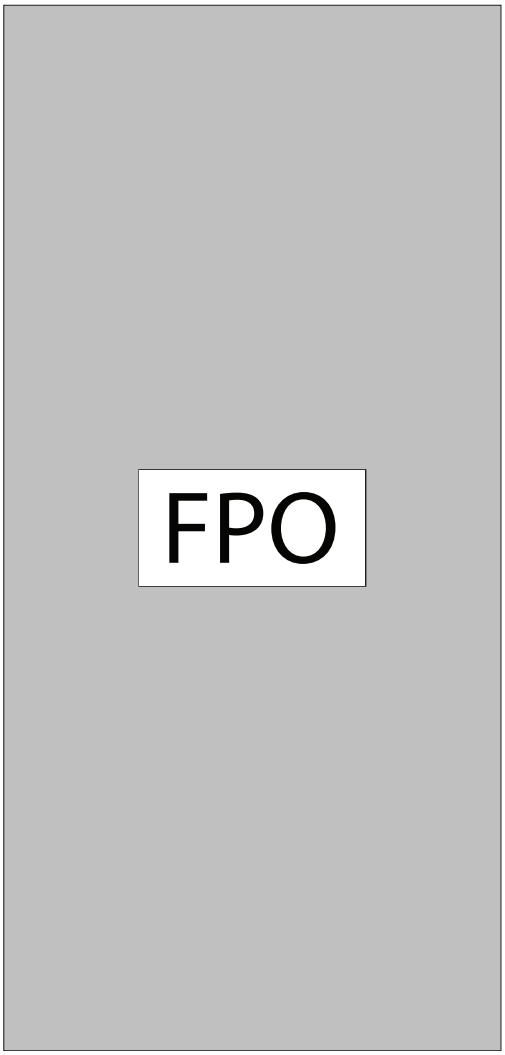
## Tap




Lightly touch items to select or launch them.

- Tap an item to select it.
- Double-tap an image to zoom in or out.

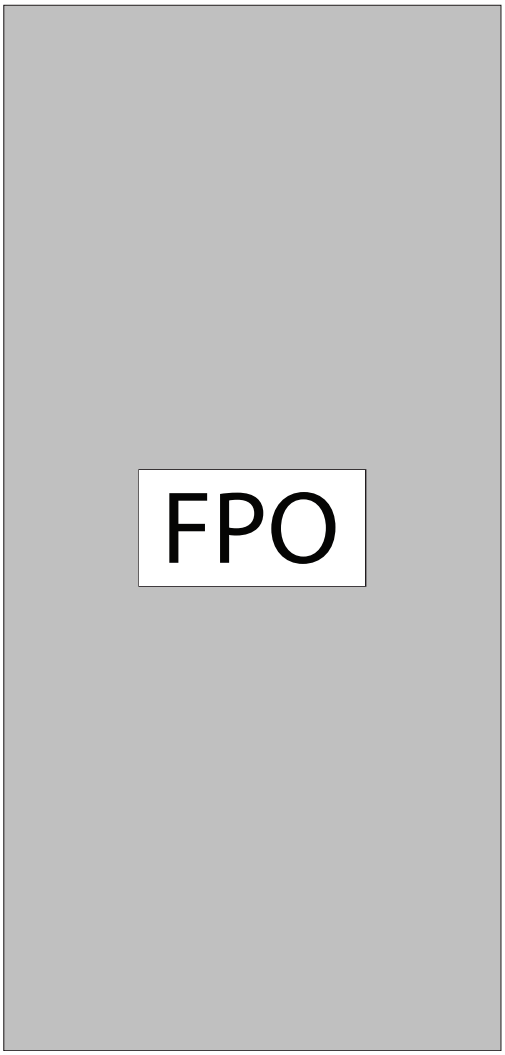
## Swipe




Lightly drag your finger across the screen.

- Swipe the screen to unlock the device.
- Swipe the screen to scroll through the Home screens or menu options.

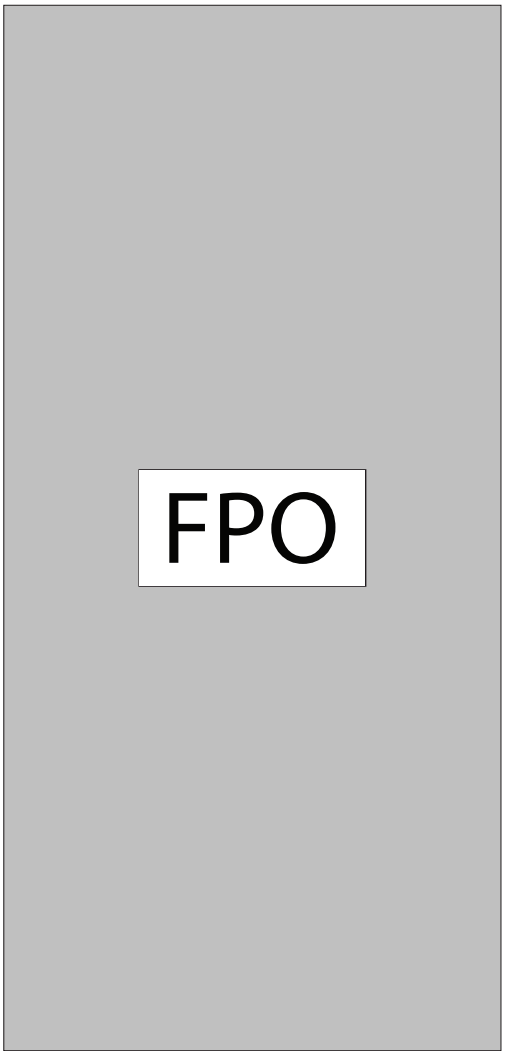
## Drag and drop




Touch and hold an item, and then move it to a new location.

- Drag an app shortcut to add it to a Home screen.
- Drag a widget to place it in a new location.

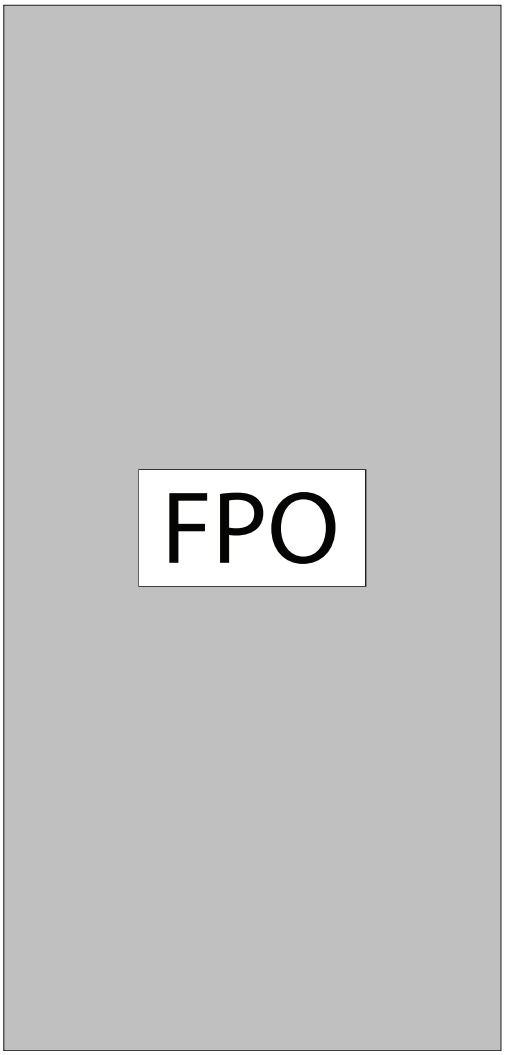
## Zoom in and out




Bring your thumb and forefinger together or apart to zoom in and out.

- Bring your thumb and forefinger together on the screen to zoom out.
- Move your thumb and forefinger apart on the screen to zoom in.

## Touch and hold

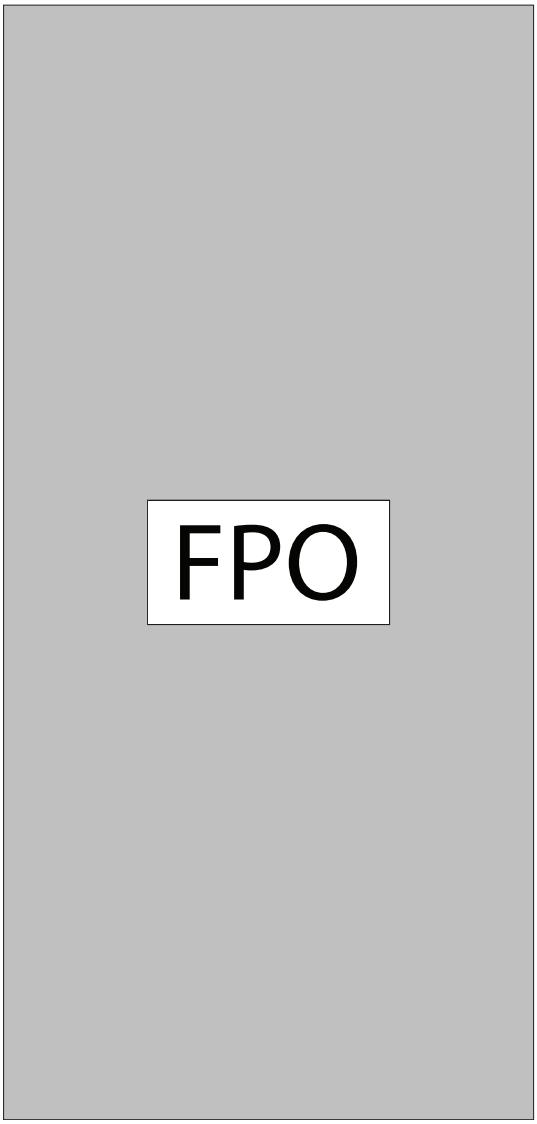



Touch and hold items to activate them.

- Touch and hold a field to display a pop-up menu of options.
- Touch and hold a Home screen to customize the Home screen.

# Navigation bar

The Navigation bar, at the bottom of the screen, displays the navigation keys.



### Navigation gestures

To make more space on the screen, you can hide the navigation keys, and instead use gestures to navigate the device. Simply swipe up from the bottom of the screen to navigate the device.

- From Settings, tap **Display** > **Navigation bar** > **Full screen gestures**.
  - Tap **Gesture hints** to display lines at the bottom of the screen where gestures must be done for each navigation button.
  - Tap **Block gestures with S Pen** to prevent the S Pen from being used for full screen gestures.

**TIP** You can also quickly switch between navigation gestures and navigation buttons using the Quick settings menu.

### Button order

Personalize your device by changing where the Recent apps and Back buttons display on the Navigation bar.

- From Settings, tap **Display** > **Navigation bar**, and tap an option under Button order.

## Customize your home screen

The Home screen is the starting point for navigating your device. You can place your favorite apps and widgets here. You can set up additional Home screens, remove screens, change the order of screens, and choose a main Home screen.

### App icons

You can use app icons to launch an app from any Home screen.

- From Apps, touch and hold an app icon, and tap **Add to Home**.

To remove an icon:

- Touch and hold an app icon, and tap **Remove from Home**.

**NOTE** Removing an icon does not delete the app, it just removes the icon from a Home screen.

## Use folders

Organize App shortcuts in folders on an Apps screen or Home screen.

For more information, see **Create and use folders** on page 44.

## Wallpapers

You can change the look of the Home and Lock screens by choosing a favorite picture or preloaded wallpaper.

1. From a Home screen, touch and hold the screen.
2. Tap **Wallpapers**.
3. Tap an image to choose it.
   - Tap the screen or screens to which you want to apply the wallpaper.
4. Tap **Set as wallpaper**, and confirm when prompted.

## Widgets

Add widgets to your home screens for quick access to info or apps.

1. From a Home screen, touch and hold the screen.
2. Tap **Widgets**, and then touch and hold a widget, drag it to a Home screen, and release it.

### Customize Widgets

Once you have added a widget, you can customize where it's located and how it functions.

- From a Home screen, touch and hold a widget, and tap an option:
  - **Remove from Home**: Delete a widget from your screen.
  - **Widget settings**: Customize the function or appearance of the widget.
  - **App info**: Review the widget usage, permissions, and more.

## Home screen settings

Customize your Home and Apps screens.

1. From a Home screen, touch and hold the screen.
2. Tap ⚙ **Home screen settings** to customize:
   - **Home screen layout**: Set your device to have separate Home and Apps screens, or only a Home screen where all apps are located.
   - **Home screen grid**: Choose a layout to determine how icons are arranged on the Home screen.
   - **Apps screen grid**: Choose a layout to determine how icons are arranged on the Apps screen.
   - **Apps button**: Add a button to the Home screen for easy access to the Apps screen.
   - **App icon badges**: Enable to show badges on apps with active notifications. You can also choose the badge style.
   - **Lock Home screen layout**: Prevent items on the Home screen from being removed or repositioned.
   - **Add apps to Home screen**: Automatically add newly-downloaded apps to the Home screen.
   - **Swipe down for notification panel**: Enable this feature to open the Notification panel by swiping down anywhere on the Home screen.
   - **Hide apps**: Choose apps to hide from the Home and App screens. Return to this screen to restore hidden apps. Hidden apps are still installed and can appear as results in Finder searches.
   - **About Home screen**: View version information.

## Status bar

The Status bar provides device information on the right side and notification alerts on the left.

### Status icons

Battery full

Battery low

Charging

Mute

Vibrate

Airplane mode

Bluetooth active

Wi-Fi active

Location active

Alarm

### Notification icons

New email

Download

Upload

Wi-Fi available

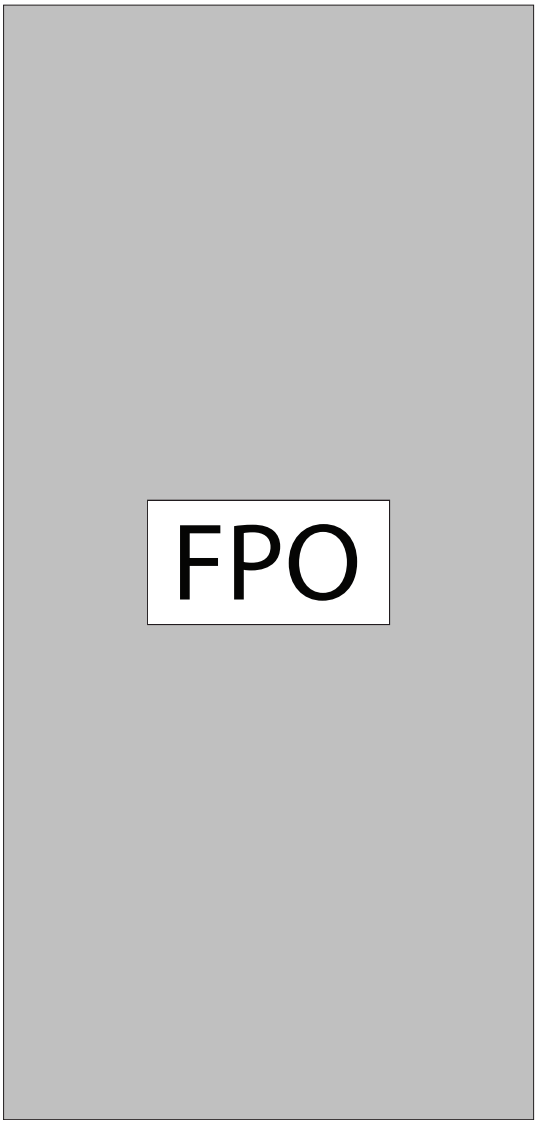
App update

Configure display options for the Status bar.

- From Quick settings, tap ⋮ **More options** > **Status bar** for the following options:
  - **Show notification icons**: Choose how to display notification icons on the Status bar.
  - **Show battery percentage**: Display the battery charge percentage next to the battery icon on the Status bar.

## Notification panel

For quick access to notifications, settings, and more, simply open the Notification panel.



## View the Notification panel

You can access the Notification panel from any screen.

1. Drag the Status bar down to display the Notification panel.
2. Swipe down the list to see notification details.
   - To open an item, tap it.
   - To clear a single notification, drag the notification left or right.
   - To clear all notifications, tap **Clear**.
   - To customize notifications, tap **Notification settings**.
3. Drag upward from the bottom of the screen or tap **Back** to close the Notification panel.

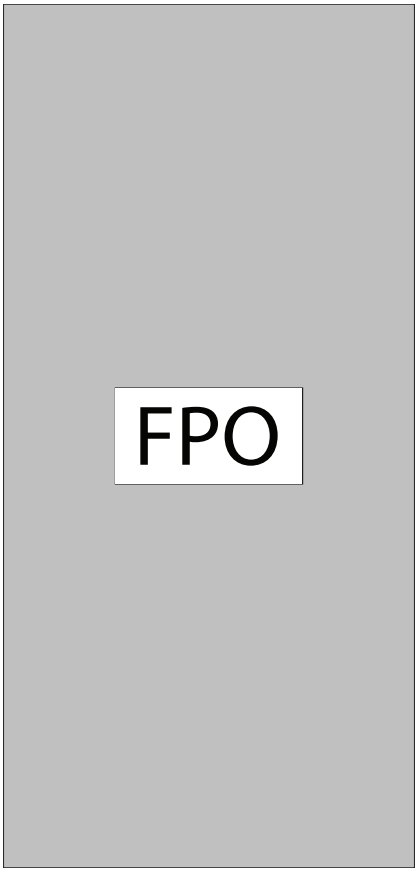
## Quick settings

The Notification panel also provides quick access to device functions using Quick settings.

1. Drag the Status bar down to display the Notification panel.
2. Drag — **View all** downward.
   - Tap a quick setting icon to turn it on or off.
   - Touch and hold a quick setting icon to open the setting.
   - Tap **Search** to search the device.
   - Tap **Settings** to quickly access the device's settings menu.
   - Tap **More options** to reorder Quick settings or to change the button layout.
3. Drag — **View all** upward to close Quick settings.

# S Pen

The S Pen provides a variety of helpful functions. Use your S Pen to launch apps, take notes, or draw a picture.



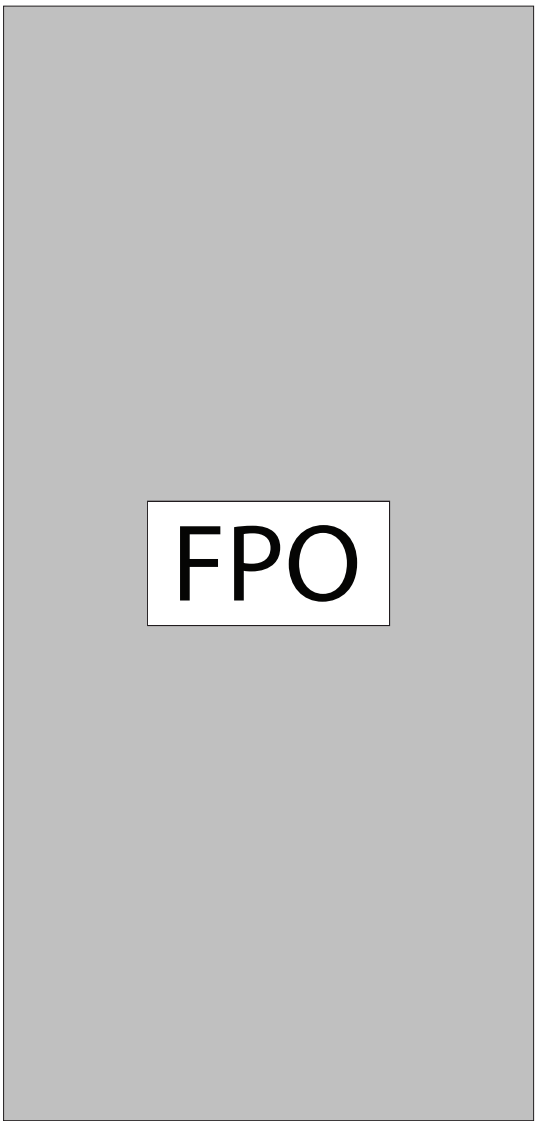

## Air view

Hover the S Pen over the screen to preview content or view information about an item on the screen. The following Air view features are available:

- Preview an email message before opening it.
- Preview the contents of a photo album or enlarge a picture.
- Preview a video and navigate to a specific scene by hovering over the timeline.
- View the name or description of an icon or a button.

**NOTE** The preview function is only available when the S Pen's on-screen pointer is a solid color.

## Air command




1. Tap **Air command** or hold the S Pen near the screen so that the pointer appears, and then press the **S Pen** button once.
2. Tap an option:
   - **Create note**: Launch a new note in the Samsung Notes app.
   - **View all notes**: Launch the Samsung Notes app and view a listing of the notes you have created.

- **Smart select**: Draw around an area of the screen to collect it in the Gallery app.
- **Screen write**: Capture screenshots and write or draw on them.
- **Live message**: Create a short animated message by drawing or writing with the S Pen.
- **Translate**: Hover the S Pen over a word to see it translated into another language and listen to its pronunciation.
- **PENUP**: Use the S Pen to draw, color, edit, and share live drawings.
- **Add shortcuts**: Add more apps or functions to the Air command menu.
- **Settings**: Customize Air command by configuring apps and functions, and by changing how the Air command menu appears.

### Create note

Launch a new note directly in the Samsung Notes app. For more information, see **Samsung Notes** on page 48.

- Tap **Air command** > **Create note**.

### View all notes

Launch the Samsung Notes app and view a listing of the notes you have created.

- Tap **Air command** > **View all notes**.

## Smart select

The Smart select feature allows you to copy content from any screen. You can then add it to your Gallery app or share it with your contacts.

1. Tap **Air command** > **Smart select**.
2. Tap a shape in the menu, and then drag the S Pen to select content. The following options appear:
   - **Extract text**: Identify and extract text from the selected content.
   - **Auto select**: Allow Smart select to automatically select content to extract.

- **Draw**: Draw on the captured content.
- **Share**: Choose a sharing method to share your content.

3. Tap **Save**.

**TIP** You can tap **GIF** to record an animation or **Pin** to pin the content to your screen using Smart select.

## Screen write

Screen write allows you to capture screenshots and write or draw on them.

1. Tap **Air command** > **Screen write**.
2. The current screen is captured, and a pen tool appears. The following editing tools are provided:
   - **Crop**: Drag the edges of the screen to crop the captured content.
   - **Pen**: Draw on the screenshot. Tap the Pen icon a second time to change the pen tip and size.
   - **Color**: Change the pen color.
   - **Stroke size**: Change the pen stroke.
   - **Undo**: Reverse the last action.
   - **Redo**: Repeat the last action that was undone.
   - **Share**: Choose a sharing method to share your content.
   - **Scroll capture**: Capture any scrollable areas of the screen that may be hidden.
3. Tap **Save**. The content is saved to the Gallery app.

**TIP** Hold the **S Pen** button to erase your drawings on the screen memo.

## Live message

Record an animated drawing or written message.

1. Tap **Air command** > **Live message**.
2. Tap a background, and tap **Start drawing**.
3. Draw an image or write a message, which is recorded to create an animation.
4. Tap **Done** to save.

### Translate

Hover over words with the S Pen to translate them and listen to their pronunciation.

1. Tap **Air command** > **Translate**.
2. Tap the source and target languages to change them to the desired languages.
3. Hover the S Pen over a word.
   - Tap **Sound** to hear the word pronounced in the source language.
4. Tap **Close** to close Translate.

### PENUP

Use the S Pen to draw, color, edit, and share live drawings.

- Tap **Air command** > **PENUP**.

### Add shortcuts

You can customize the Air command menu by adding shortcuts to apps and functions.

1. Tap **Air command** > **Add shortcuts**.
2. Tap the apps or functions you would like to add to the Air command menu.
   - To remove an app shortcut, tap **Remove**.
3. Tap **Back** to save your selection.

## Direct pen input

When entering text, you can open a Handwriting window that allows you to write with the S Pen.

1. Hover the S Pen over a text field until **Handwriting** is displayed.
2. Tap **Handwriting**. The Handwriting window is displayed.
3. Use the space provided in the window to write an entry by hand using the S Pen. While writing, your entries are converted into text.
   - To edit the converted text, use the Space, Delete, and Enter icons.
   - To change the position of the cursor, drag the pointer below the cursor to the desired position for editing.

## Screen off memo

You can write memos without turning your device on.

1. Detach the S Pen while the screen is off, and write on the screen.
2. Tap an option to customize your memo:
   - **Color**: Change the pen color.
   - **Pen**: Tap to use the pen tool. Double tap to adjust the line thickness.
   - **Eraser**: Tap to use the eraser tool. Double tap to erase all.
3. Tap **Back** > **Save** to save your memo to the Samsung Notes app.

**NOTE** The screen off memo setting must be enabled. For more information, see **Configure S Pen settings** below.

## Configure S Pen settings

To configure S Pen settings:

- From Settings, tap **Advanced features** > **S Pen** to configure the following settings:
  - **S Pen remote**: Configure how the remote control functions while using apps.
  - **Unlock with S Pen remote**: Use the S Pen button to unlock the device. A secure screen lock must be set to use this feature.
  - **Screen off memo**: Create Screen off memos by detaching the S Pen while the screen is turned off and then writing on the screen. Screen off memos are saved in Samsung Notes.
  - **Air view**: Turn Air view on or off.
  - **Direct pen input**: Turn the Direct pen input feature on or off.
  - **Pointer**: Turn the pointer on or off. The pointer appears on the screen when the tip of the S Pen is near the screen, showing available actions.

### Air Command

- **Shortcuts**: Configure the Air command menu with S Pen features, apps, and functions.
- **Floating icon**: Show an Air command icon that you can move around the screen.

### Feedback

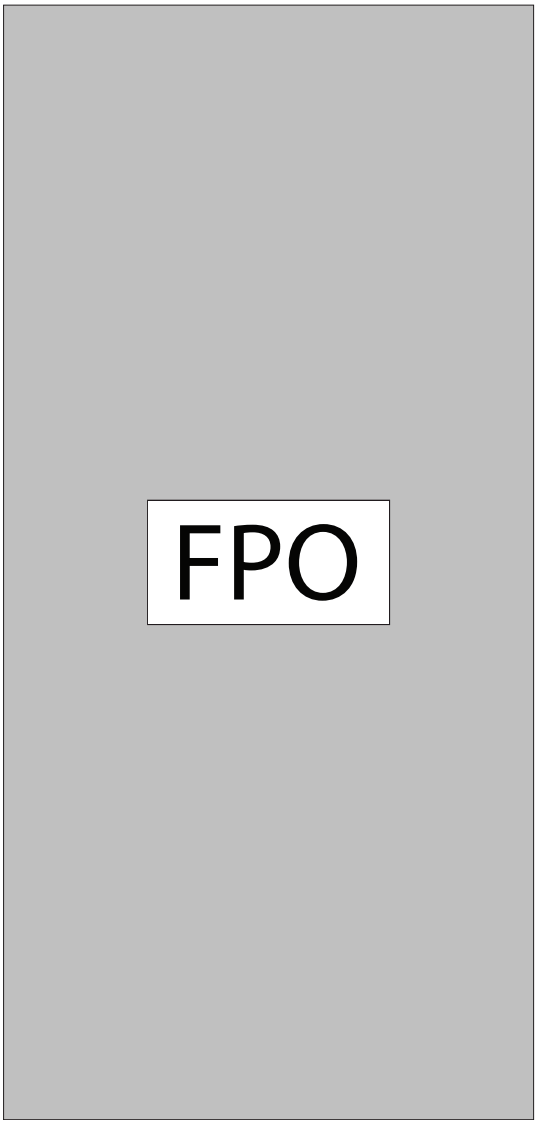
- **Sound**: Set your device to make sounds when writing on the screen.

### General

- **Learn about S Pen features**: Find out how to use S Pen features.
- **About S Pen**: View version information for the S Pen features.
- **Contact us**: Contact Samsung support through Samsung Members.

## Replace the S Pen tip

If the S Pen tip becomes worn, you can replace it with a new one, using the included kit.



# Bixby

Bixby is a virtual assistant that learns, evolves, and adapts to you. It learns your routines, helps you set up reminders based on time and location, and is built in to your favorite apps. Visit **samsung.com/us/support/owners/app/Bixby** for more information.

The Bixby Home page displays customized content based on your interactions. Bixby learns from your usage patterns and will suggest content you may like.

- From a Home screen, swipe right.

**TIP** You can also access Bixby from the Apps list. From Apps, tap **Bixby**.

## Change the Power key into a Bixby shortcut

Press and hold the **Power** key to activate Bixby. When this feature is enabled, tap on the Notification panel to access Power off, Restart, and Emergency mode.

- From Settings, tap **Advanced features** > **Wake Bixby with Power key**, and tap to enable this feature.

**TIP** When this feature is enabled you can still press the **Power** key to lock or wake up your device.

## Bixby Routines

You can use Bixby to show you information or change device settings based on where you are and what you are doing.

- From Settings, tap **Advanced features** > **Bixby Routines**.

## Bixby Vision

Bixby is integrated with your Camera, Gallery, and Internet apps to give you a deeper understanding of what you see. It provides contextual icons for translation, QR code detection, landmark recognition, or shopping.

### Camera

Bixby Vision is available on the Camera viewfinder to help understand what you see.

- From **Camera**, tap **Bixby Vision** and follow the prompts.

### Gallery

Bixby Vision can be used on pictures and images saved in the Gallery app.

1. From **Gallery**, tap a picture to view it.
2. Tap **Bixby Vision** and follow the prompts.

### Internet

Bixby Vision can help you find out more about an image you find in the Internet app.

1. From **Internet**, touch and hold an image until a pop-up menu is displayed.
2. Tap **Bixby Vision** and follow the prompts.

## Digital wellbeing

You can monitor and manage your digital habits by getting a daily view of how frequently you use apps, how many notifications you receive, and how often you check your device. You can also set your device to help you wind down before going to bed.

- From Settings, tap **Digital wellbeing** for the following features:
  - **Screen time**: Tap the time value in the dashboard circle for details on how long each app has been opened and used today.
  - **Times opened**: Tap the **Unlocks** number to see how many times each app has been opened today.
  - **Notifications received**: Tap the **Notifications** number to see how many notifications have been received from each app today.
  - **Dashboard**: View all dashboard information shown above. Each app can have a timer set to limit usage throughout the day.
  - **Wind down**: Enable to turn the screen to grayscale and limit notifications before going to bed.
  - **Notifications**: Configure notification settings for each app.

# Flexible security

Use biometrics to securely unlock your device and log in to accounts.

## Face recognition

You can enable Face Recognition to unlock your screen.

- Face recognition is less secure than Pattern, PIN, or Password. Your device could be unlocked by someone or something that looks like your image.
- Some conditions may affect face recognition, including wearing glasses, hats, beards, or heavy make-up.
- When registering your face, ensure that you are in a well-lit area and the camera lens is clean.

1. From Settings, tap **Biometrics and security** > **Face recognition**.
2. Follow the prompts to register your face.

**TIP** To use your face to unlock your device, you must set a pattern, PIN, or password.

### Face recognition management

Customize how face recognition works.

- From Settings, tap **Biometrics and security** > **Face recognition**.
  - **Remove face data**: Delete existing faces.
  - **Face unlock**: Enable or disable face recognition security.
  - **Stay on Lock screen**: When you unlock your device with face recognition, stay on the Lock screen until you swipe the screen.
  - **Faster recognition**: Turn on for faster face recognition. Turn off to increase security and make it harder to unlock using an image or video of your likeness.
  - **Brighten screen**: Increase the screen brightness temporarily so that your face can be recognized in dark conditions.
  - **Samsung Pass**: Access your online accounts using face recognition.

## Fingerprint scanner

Use fingerprint recognition as an alternative to entering passwords in certain apps. You can also use your fingerprint to verify your identity when logging in to your Samsung account.

1. From Settings, tap **Biometrics and security** > **Fingerprints**.
2. Follow the prompts to register your fingerprint.

**TIP** To use your fingerprint to unlock your device, you must set a pattern, PIN, or password.

### Fingerprint management

Add, delete, and rename fingerprints.

- From Settings, tap **Biometrics and security** > **Fingerprints** for the following options:
  - The list of registered fingerprints is at the top of this list. You can touch and hold a fingerprint to remove or rename it.
  - **Add fingerprint:** Simply follow the prompts to register another fingerprint.
  - **Check added fingerprints**: Scan your fingerprint to see if it has been registered.

### Fingerprint verification settings

Use fingerprint recognition to verify your identity in supported apps and actions.

- From Settings, tap **Biometrics and security** > **Fingerprints**.
  - **Fingerprint unlock**: Use your fingerprint for identification when unlocking your device.
  - **Samsung Pass**: Use your fingerprint for identification when using supported apps.

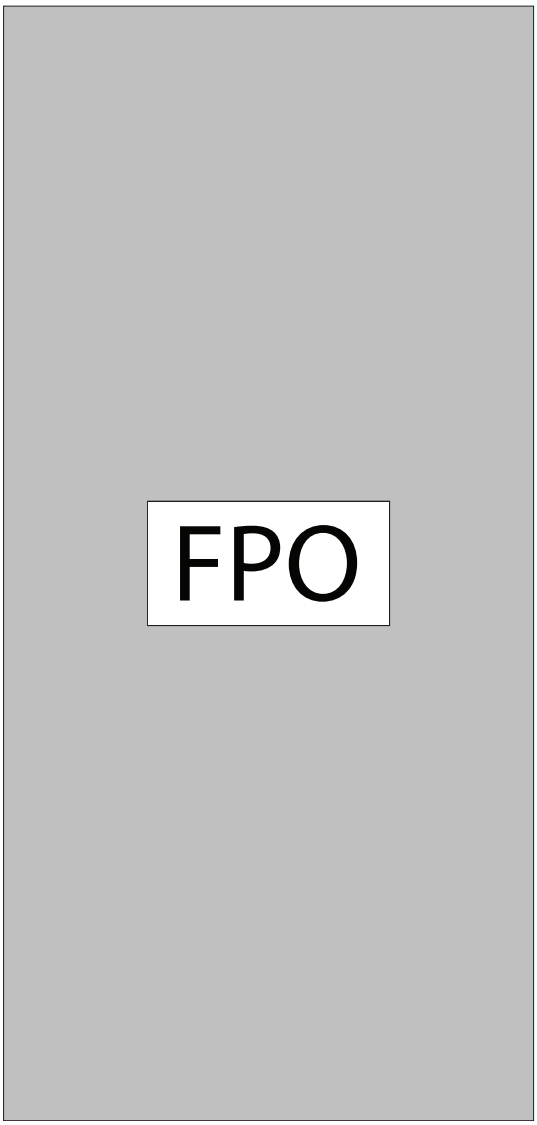
## Biometrics Preferences

Configure your preferences for biometric security options.

- From Settings, tap **Biometrics and security** > **Biometrics preferences** for the following options:
  - **Preferred biometric**: Choose your preferred biometric. Only biometrics that have already been set up are listed.
  - **Screen transition effect**: Show a transition effect when you use biometrics to unlock your device.

# Multi window

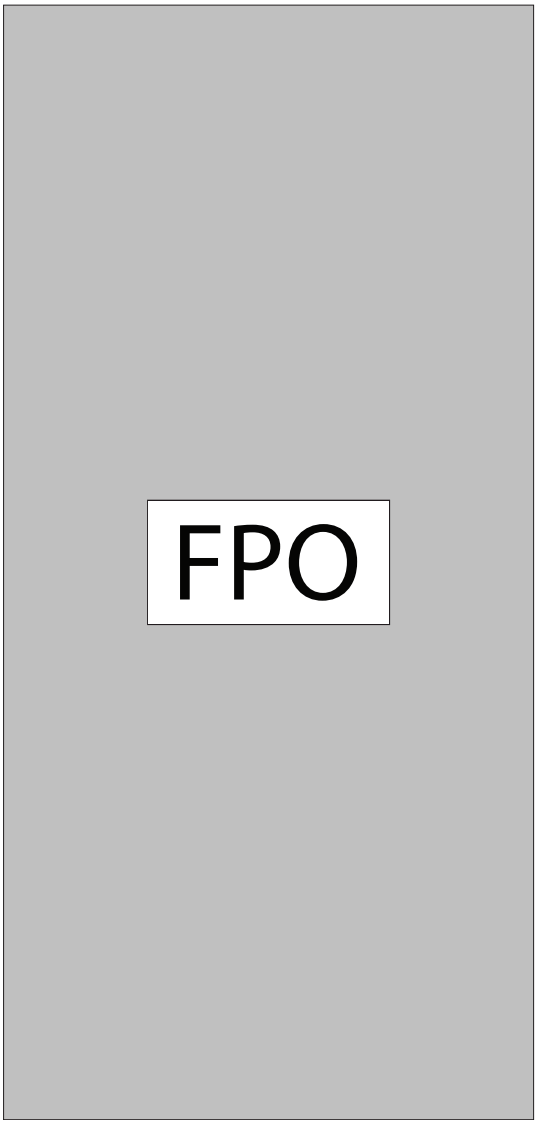
Multitask by using multiple apps at the same time. Apps that support Multi window™ can be displayed together on a split screen. You can switch between the apps and adjust the size of their windows.




1. From any screen, tap **Recent apps**.
2. Tap the app icon, and then tap **Open in split screen view**.
3. Tap an app in the other window to add it to the split screen view.
   - Drag the middle of the window border to adjust the window size.

# Enter text

Text can be entered using a keyboard or your voice.




- Tap a field to display the Samsung keyboard.
  - Tap **Show predictive text** to view suggested words while you type.
  - Tap **Show toolbar functions** to view all keyboard options.

## Toolbar functions

The toolbar provides additional helpful functions.

- From the Samsung keyboard, tap ••• **Expand toolbar** for the following options:
  - **Clipboard**: Access the clipboard.
  - **Emojis**: Insert an emoji.
  - **GIF keyboard**: Add animated GIFs.
  - **Handwriting**: Use your handwriting to enter text.
  - **Live message**: Record an animated drawing or written message.
  - **Modes**: Select a keyboard layout.
  - **Settings**: Access keyboard settings.
  - **Stickers**: Add illustrated stickers.
  - **Text editing**: Use an editing panel to help pinpoint text that you want to cut, copy, and paste.
  - **Voice input**: Use Samsung voice input.

## Configure the Samsung keyboard

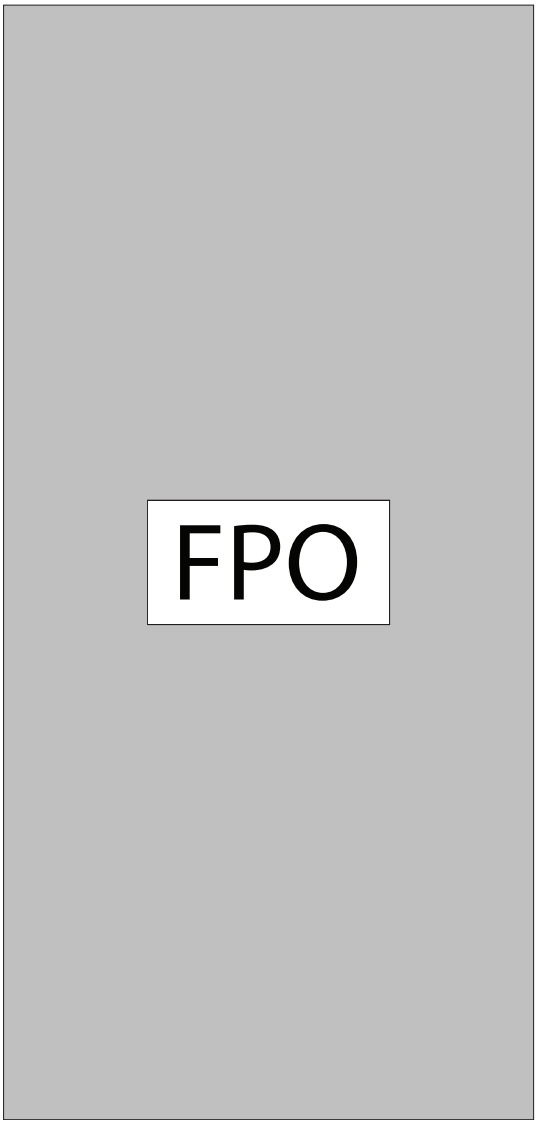
Set customized options for the Samsung keyboard.

◌ From the Samsung keyboard, tap ⚙ **Settings** for the following options:

- **Languages and types**: Set the keyboard type and choose which languages are available on the keyboard.
  - To switch between languages, slide the Space bar sideways.
- **Smart typing**: Use predictive text and auto-correction features to prevent common typing mistakes. Type by swiping between letters.
- **Style and layout**: Customize the appearance and function of the keyboard.
- **Swipe, touch, and feedback**: Customize gestures and feedback.
- **Reset to default settings**: Return keyboard to original settings and clear personalized data.
- **About Samsung keyboard**: View version and legal information for the Samsung keyboard.

## Use Samsung voice input

Instead of typing, enter text by speaking.




1. From the Samsung keyboard, tap **Voice input**.
2. Tap the screen and speak your text.

## Configure Samsung voice input

Set customized options for Samsung voice input.

1. From the Samsung keyboard, tap **Voice input**.
2. Tap **Settings** for options.
   - **Keyboard language**: Choose the language for the keyboard.
   - **Voice input language**: Select the language for Samsung voice input.
   - **Hide offensive words**: Hide potentially offensive words with asterisks.
   - **About Samsung voice input**: View version and legal information for Samsung voice input.

# Apps

Using apps

Samsung apps

Google apps

Carrier apps

FPO

# Using apps

The Apps list displays all preloaded and downloaded apps. Apps can be downloaded from Galaxy Store and the Google Play™ store.

- From a Home screen, swipe the screen upward to access the Apps list.

## Uninstall or disable apps

Installed apps can be removed from your device. Some apps that are preloaded (available on your device by default) can only be disabled. Disabled apps are turned off and hidden from the Apps list.

- From Apps, touch and hold an app, and tap **Uninstall/Disable**.

## Search for apps

If you are not sure where to find an app or a setting, you can use the Search feature.

1. From Apps, tap **Finder search**, and enter a word or words. As you type, matching apps and settings appear as results on the screen.
2. Tap a result to go to that app.

**TIP** You can customize the search settings by tapping ⋮ **More options** > **Finder settings**.

## Sort apps

App shortcuts can be listed alphabetically or in your own custom order.

- From Apps, tap ⋮ **More options** > **Sort** for the following sorting options:
  - **Custom order**: Arrange apps manually.
  - **Alphabetical order**: Sort apps alphabetically.

**TIP** When apps are arranged manually (Custom order), empty icon spaces can be removed by tapping ⋮ **More options** > **Clean up pages**.

# Create and use folders

You can make folders to organize App shortcuts on the Apps list.

1. From Apps, touch and hold an app shortcut, and then drag it on top of another app shortcut until it is highlighted.
2. Release the app shortcut to create the folder.
   - **Enter folder name**: Name the folder.
   - **Palette**: Change the folder color.
   - **Add apps**: Place more apps in the folder. Tap apps to select them, and then tap **Add**.
3. Tap **Back** to close the folder.

## Copy a folder to a Home screen

You can copy a folder to a Home screen.

- From Apps, touch and hold a folder, and tap **Add to Home**.

## Delete a folder

When you delete a folder, the app shortcuts return to the Apps list.

1. From Apps, touch and hold a folder to delete.
2. Tap **Delete folder**, and confirm when prompted.

# App settings

Manage your downloaded and preloaded apps.

1. From Settings, tap **Apps**.
2. Tap **Menu** to set which apps to view, and then choose **All**, **Enabled**, or **Disabled**.
3. Tap **More options** for the following options:
   - **Sort by**: Sort the apps by size, name, last used, or last updated.
   - **Default apps**: Choose or change apps that are used by default for certain features, like email or browsing the Internet.

- **App permissions**: Control which apps have permissions to use certain features of your device.
- **Show/Hide system apps**: Show or hide system (background) apps.
- **Special access**: Select which apps can have special access permissions to features on your device.
- **Reset app preferences**: Reset options that have been changed. Existing app data is not deleted.

4. Tap an app to view and update information about the app. The following options may be displayed:
   - **Uninstall/Disable**: Uninstall or disable the app. Some preloaded apps can only be disabled, not uninstalled.
   - **Force stop**: Stop an app that is not working correctly.
   - **Data usage**: View mobile data usage.
   - **Battery**: View battery usage since the last full charge.
   - **Storage**: Manage the app's storage usage.
   - **Memory**: View memory usage.
   - **Notifications**: Configure notifications from the app.
   - **Permissions**: View permissions granted to the app for access to your device's information.
   - **Set as default**: Set the app as a default for a certain category of apps.

**NOTE** Options vary by app.

# Samsung apps

The following apps are either preloaded or downloaded over-the-air to your device during setup.

## Galaxy Essentials

Galaxy Essentials is a collection of specially chosen applications available through Samsung apps. You can access and download a collection of premium content.

- From Apps, tap ⋮ **More options** > **Galaxy Essentials**.

## Bixby

Bixby displays customized content based on your interactions. Bixby learns from your usage patterns and suggests content you may like.

For more information see **Bixby** on page 31.

- From Apps, tap **Bixby**.

## Galaxy Store

Find and download premium apps that are exclusive to Galaxy devices. A Samsung account is required to download from Galaxy Store.

- From Apps, tap **Samsung** folder > **Galaxy Store**.

## Game Launcher

Automatically arrange all your games in one place. For more information on Game Launcher, visit **samsung.com/us/support/owners/app/game-launcher**.

- From **Apps**, tap **Game Launcher**.

## PENUP

Share photos, comment on other creations, or just browse through the pages for something to add to your personal collection. This community brings together anyone that uses the S Pen to draw, sketch, scribble or paint.

- From Apps, tap **Samsung** folder > **PENUP**.

## Samsung Flow

Connect your phone and tablet with Samsung Flow. You can then view notifications and reply to messages from your phone on your connected tablet. You can also use Mobile hotspot to access the Internet on your tablet through your phone's network connection when other networks are not available.

For more information, visit **samsung.com/us/support/owners/app/samsung-flow**.

- From Apps, tap **Samsung** folder > **Samsung Flow**.

## Samsung Members

Get more and do more from your Galaxy device. Enjoy DIY support tools and exclusive experiences and content — for Samsung members only. Samsung Members may be preloaded on your device, or you can download and install it from Galaxy Store or the Google Play store.

Visit **samsung.com/us/support/owners/app/samsung-members** to learn more.

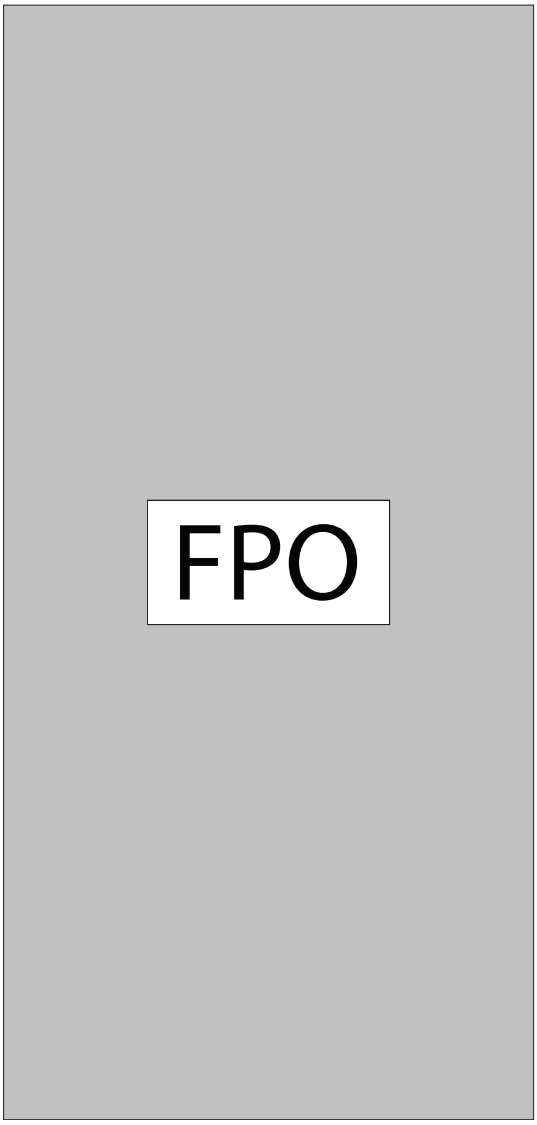
- From Apps, tap **Samsung** folder > **Samsung Members**.

# Samsung Notes

Use Samsung Notes to create notes containing text, images with footnotes, voice recordings, and music. You can share your notes easily using social networking services.

Visit **samsung.com/us/support/owners/app/samsung-notes** to learn more.

- From Apps, tap **Samsung Notes** > **Create.**



## Edit notes

Make edits to notes you create.

1. From **Samsung Notes**, tap a note to view it.
2. Tap **Edit**, and make changes. When you are finished, tap **Save**.

## Notes options

You can edit, share, or manage notes.

- From **Samsung Notes**, tap **More options** for the following options:
  - **Edit**: Select notes to share, delete, or move.
  - **Sort**: Change the way notes are organized.
  - **View**: Switch between Grid, List, or Simple list.

## Notes menu

You can view your notes by category.

- From **Samsung Notes**, tap **Menu** for the following options:
  - **All notes**: View all notes.
  - **Frequently used**: Quick access to commonly used notes.
  - **Shared notebooks**: View notebooks shared with your contacts through your Samsung account.
  - **Trash**: View deleted notes.
  - **Categories**: View notes by category.
  - **Settings**: View settings for the Samsung Notes app.

# SmartThings

SmartThings allows you to control, automate, and monitor your home environment through a mobile device to fit your specific needs. You can use the app to connect multiple devices at once or one device at a time. Check the status of your devices by looking at the dashboard.

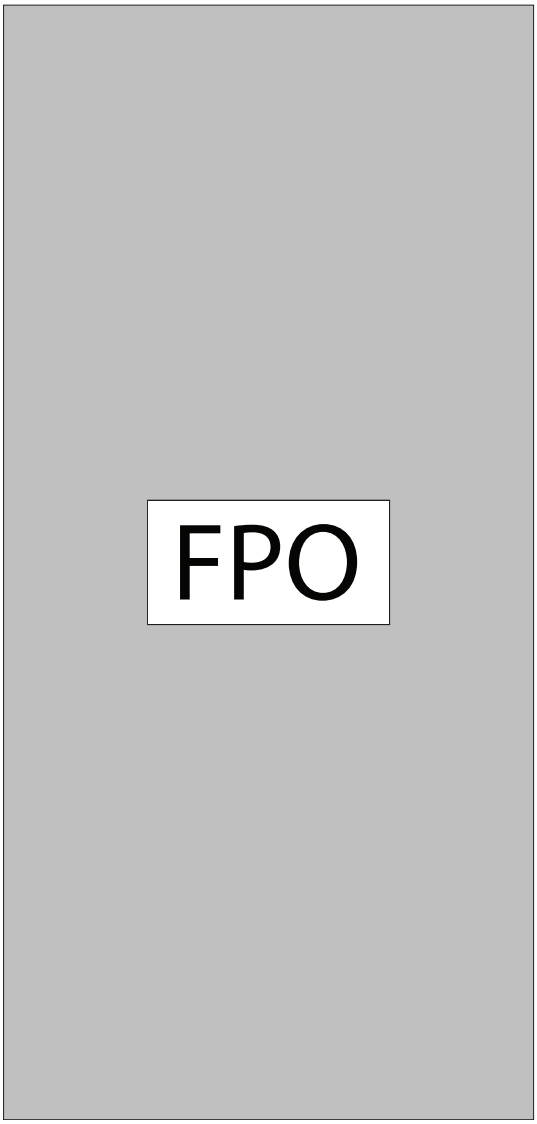
- From Apps, tap **Samsung** folder › **SmartThings**, and sign in with your Samsung account.

**NOTE** Non-Samsung connected device errors or defects are not covered by the Samsung warranty; contact the non-Samsung device manufacturer for support.

# Calculator

The Calculator app features both basic and scientific math functions, as well as a unit converter.

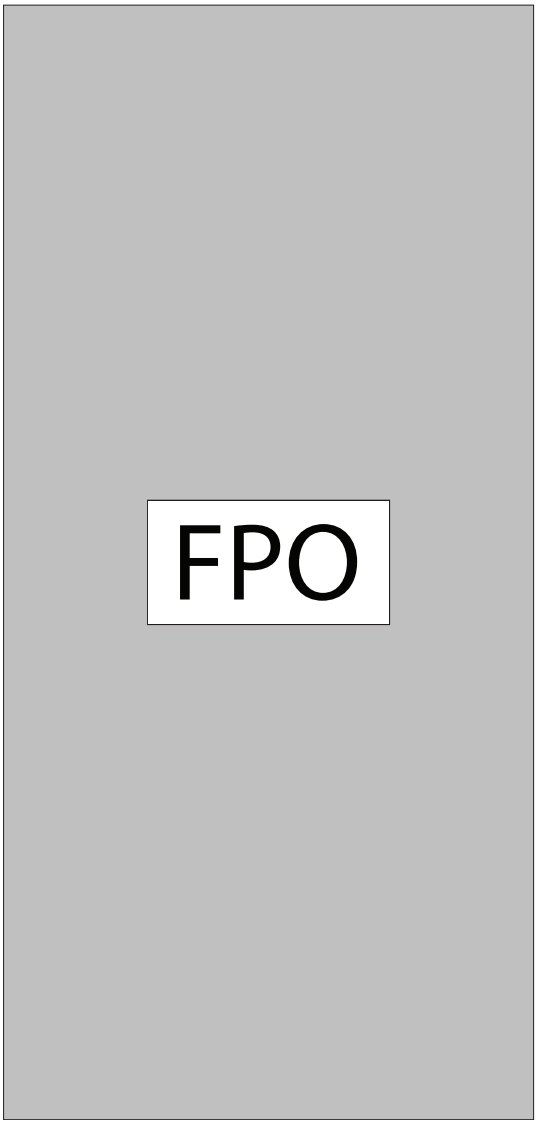
- From Apps, tap **Calculator**.



# Calendar

The Calendar app can be connected to your various online accounts to consolidate all your calendars in one place.

- From Apps, tap **Calendar**.



## Add calendars

Add your accounts to the Calendar app.

1. From **Calendar**, tap **Menu**.
2. Tap **Settings** > **Add new account** and select an account type.
3. Enter your account information and follow the prompts.

**TIP** Accounts may also support email, contacts, and other features.

## Create an event

Use your Calendar to create events.

1. From **Calendar**, tap **Add** to add an event.
2. Enter details for the event, and then tap **Save**.

## Delete an event

Delete events from your Calendar.

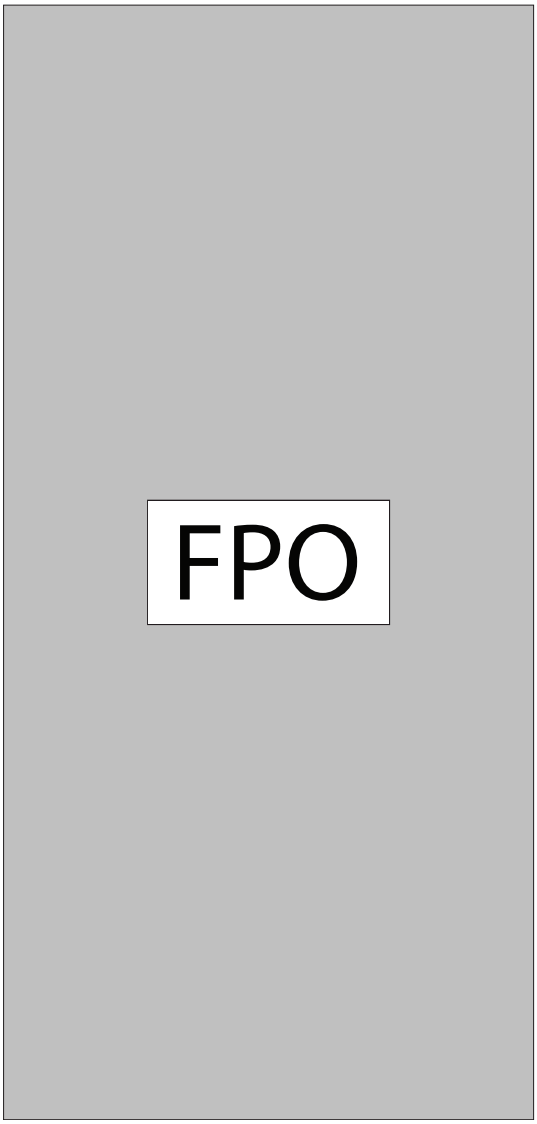
1. From **Calendar**, tap an event, and tap again to edit it.
2. Tap **Delete**, and confirm when prompted.

# Camera

You can capture high-quality pictures and videos using the Camera app.

- From Apps, tap **Camera**.

**TIP** If Quick launch is enabled, quickly press the **Power** key twice.



## Navigate the camera screen

Take stunning pictures with your device's front and rear cameras.

1. From **Camera**, set up your shot with the following features:
   - Tap the screen where you want the camera to focus.
     - When you tap the screen, a brightness scale appears. Drag the light bulb to adjust the brightness.
   - To quickly switch between the front and rear cameras, swipe the screen up or down.
   - To change to a different shooting mode, swipe the screen right or left.
   - To change camera settings, tap **Settings**.
2. Tap **Capture**.

## Record videos

Record high-quality videos using your device.

1. From **Camera**, swipe right or left to change the shooting mode to **Video**.
2. Tap **Capture** to begin recording a video.
   - To take a picture while recording, tap **Capture**.
   - To temporarily stop recording, tap **Pause**. To continue recording, tap **Resume**.
3. Tap **Stop** when you are finished recording.

## Change shooting modes

The Camera is equipped with a variety of shooting modes to capture pictures and videos in specific scenarios.

- From **Camera**, the shooting modes are located in a row near the bottom of the screen.
  - To change the shooting mode, swipe the screen right or left.
  - To view the entire list of shooting modes and each mode's description, touch and hold a shooting mode.

## Configure shooting mode

Allow the camera to determine the ideal mode for your pictures or choose from several shooting modes.

- From **Camera**, touch and hold a shooting mode.
  - **Food**: Take pictures that emphasize the vivid colors of food.
  - **Night**: Use this to take photos in low-light conditions, without using the flash.
  - **Panorama**: Create a linear image by taking pictures in either a horizontal or vertical direction.
  - **Pro**: Manually adjust the ISO sensitivity, exposure value, white balance, and color tone while taking pictures.
  - **Live focus**: Take artistic pictures by adjusting the depth of field.
  - **Photo**: Allow the camera to determine the ideal mode for the picture.
  - **Video**: Allow the camera to determine the ideal mode for the video.
  - **Hyperlapse**: Create a time lapse video by recording at various frame rates. The frame rate is adjusted depending on the scene being recorded and the movement of the device.

## Camera settings

Use the icons on the main camera screen and the settings menu to configure your camera's settings.

- From **Camera**, tap **Settings** for the following options:

  **Intelligent features**

  - **Scene optimizer**: Automatically adjust the color settings of your pictures to match the subject matter.
  - **Shot suggestions**: Get tips to help you choose the best shooting mode.
  - **Scan QR codes**: Automatically detect QR codes when using the camera.

Pictures

- **Motion photos**: Create a short video by taking pictures.
- **Hold shutter button to**: Choose whether to take a picture, take a burst shot, or create a GIF when holding the shutter button down.
- **Save options**: Choose picture format and whether to flip your selfies.

Videos

- **Rear video size**: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
- **Front video size**: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
- **High efficiency video**: Record videos in HEVC format to save space.

Useful features

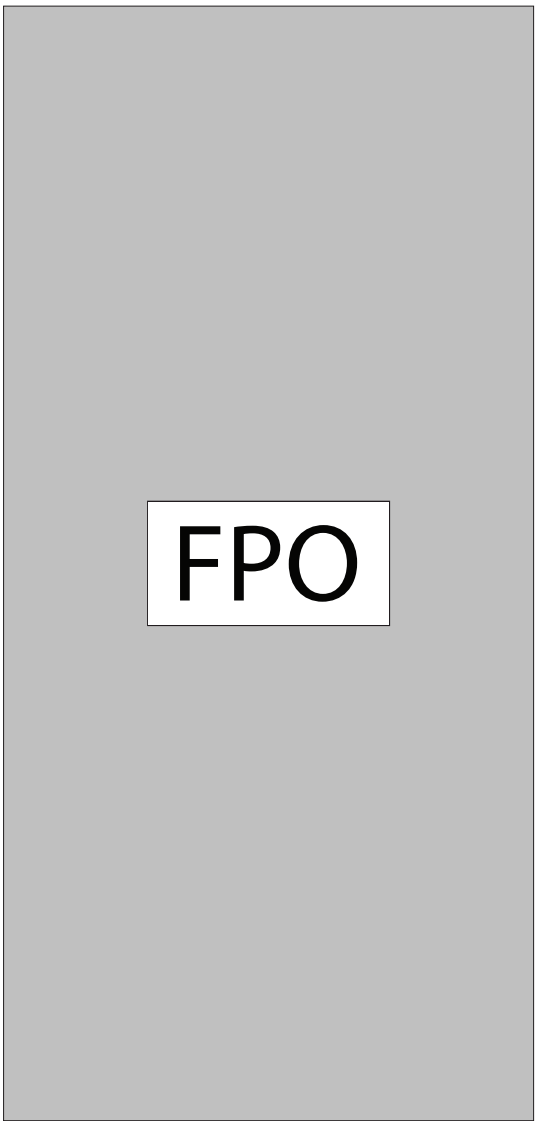
- **HDR (rich tone)**: Enables the light sensitivity and color depth features of the device to produce a brighter and richer picture.
- **Grid lines**: Display viewfinder grid lines to help compose a picture or video.
- **Location tags**: Attach a GPS location tag to the picture.
- **Camera modes**: Set the default camera mode. You can also reorder or hide your shooting modes.
- **Shooting methods**:
  - **Press Volume key to**: Use the Volume key to take pictures, record video, zoom, or control system volume.
  - **Floating shutter button**: Add an extra shutter button that you can move anywhere on the screen.
  - **Show palm**: Hold your hand out with your palm facing the camera to have your picture taken in a few seconds.
- **Quick launch**: Press the Power key twice in quick succession to open the camera.
- **Watermark**: Add a watermark to the bottom left corner of your pictures.
- **Reset settings**: Reset the camera settings.

- **Contact us**: Contact Samsung support through Samsung Members.
- **About Camera**: View app and software information.

# Clock

The Clock app offers features for keeping track of time and setting alarms.

- From Apps, tap **Clock**, and tap a tab to use a feature.



## Alarm

Use the Alarm tab to set one-time or recurring alarms and choose options for how to be notified.

1. From **Clock**, tap **Add alarm**.
2. Tap the following items to configure an alarm:
   - **Time**: Set a time for the alarm.
   - **Day**: Choose the day for this alarm.
   - **Alarm name**: Enter a name for the alarm.
   - **Alarm sound**: Choose a sound to play for the alarm and drag the slider to set the volume of the alarm.
   - **Vibration**: Choose whether the alarm uses vibration alert.
   - **Snooze**: Allow snoozing. Set interval and repeat values for the alarm while snoozing.
3. Tap **Save** to save the alarm.

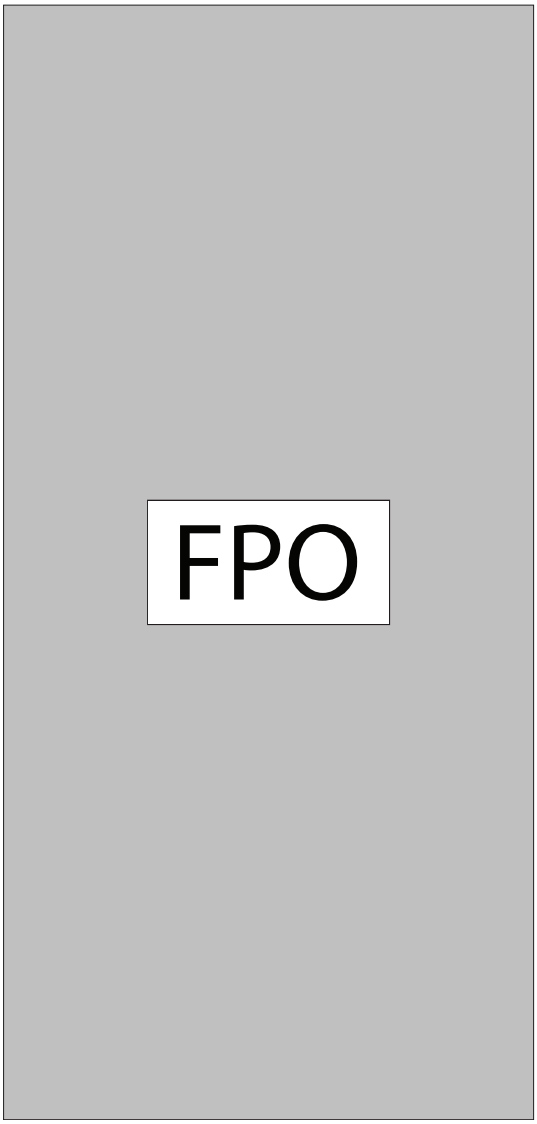
### Delete an alarm

You can delete an alarm that you created.

1. From **Clock**, touch and hold an alarm.
2. Tap **Delete**.

## World clock

The World clock lets you keep track of the current time in multiple cities around the globe.




1. From **Clock**, tap **World clock**.
2. Tap **Add city** > **Search for city**, and enter the name of the city.
3. Tap the city name in the list, and then tap **Add**.
   - To remove a city, touch and hold it, and tap **Delete**.

### Time zone converter

Set a time in a city on your World clock list to see what the local times would be in the other listed cities.

1. From **Clock**, tap **World clock**.
2. Tap **More options** > **Time zone converter**.
3. Tap **Menu** to choose a different city.
   - To add a city to the list, tap **Add city**.
4. Swipe the hours, minutes, and period (**AM** or **PM**) on the clock to set a time. Local times for the other cities listed are automatically updated.
   - To return the clock to the current time, tap **Reset**.

### Weather settings

Show weather information on your World clock.

1. From **Clock**, tap **World clock**.
2. Tap **More options** > **Weather settings**.
3. Tap to enable.
4. Tap **Unit** to change from Fahrenheit to Celsius.

## Stopwatch

The Stopwatch lets you time events down to a hundredth of a second.

1. From **Clock**, tap **Stopwatch**.
2. Tap **Start** to begin timing.
   - To keep track of lap times, tap **Lap**.
3. Tap **Stop** to end timing.
   - To continue timing after stopping the clock, tap **Resume**.
   - To reset the Stopwatch to zero, tap **Reset**.

## Timer

Set a countdown timer for up to 99 hours, 59 minutes, and 59 seconds.

1. From **Clock**, tap **Timer**.
2. Use the keypad and tap **Hours**, **Minutes**, and **Seconds** to set the Timer.
3. Tap **Start** to begin the Timer.
   - To temporarily stop the Timer, tap **Pause**. To continue, tap **Resume**.
   - To stop and reset the Timer, tap **Cancel**.

### Timer options

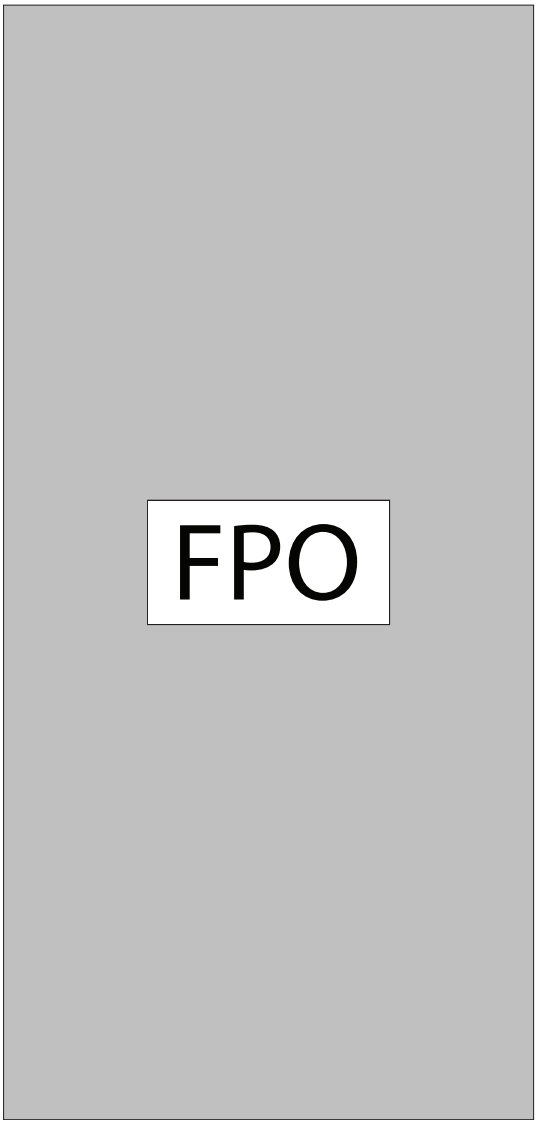
You can customize the Timer options.

- From **Clock**, tap **Timer** and choose an option:
  - **Add preset timer**: Save a preset timer with a custom name.
  - **More options** > **Set timer sound**: Choose the timer sound or create your own.

# Contacts

Store and manage your contacts. You can synchronize with personal accounts added to your device. Accounts may also support email, calendars, and other features.

- From Apps, tap **Contacts** > **Create contact**.



## Edit a contact

When editing a contact, you can tap a field and change or delete information, or you can add more fields to the contact's list of information.

1. From **Contacts**, tap a contact.
2. Tap **Edit**.
3. Tap any of the fields to add, change, or delete information.
4. Tap **Save**.

## Direct share

Share content directly with your contacts from within any app. Once enabled, your frequent contacts are displayed in the Share window.

- From Settings, tap **Advanced features** > **Direct share**, and tap to enable the feature.

## Favorites

When you mark contacts as favorites, they are easily accessible from other apps.

1. From **Contacts**, tap a contact.
2. Tap **Add to Favorites** to mark the contact as a favorite.
   - To remove the contact from Favorites, tap **Favorite**.

## Share a contact

Share a contact with others by using various sharing methods and services.

1. From **Contacts**, tap a contact.
2. Tap **Share**.
3. Tap either **vCard file (VCF)** or **Text**.
4. Choose a sharing method and follow the prompts.

## Groups

You can use groups to organize your contacts.

### Create a group

Create your own contact groups.

1. From **Contacts**, tap **Menu** > **Groups**.
2. Tap **Create group**, and then tap fields to enter information about the group:
   - **Group name**: Enter a name for the new group.
   - **Group ringtone**: Customize the sounds for the group.
   - **Add member**: Select contacts to add to the new group, and then tap **Done**.
3. Tap **Save**.

### Add or remove group contacts

Add more contacts to a group, or remove contacts.

- From **Contacts**, tap **Menu** > **Groups**, and then tap a group.
  - To remove a contact, touch and hold a contact to select it, and then tap **Delete**.
  - To add a contact, tap **More options** > **Edit group** > **Add member**, and then tap the contacts you want to add. When finished, tap **Done** > **Save**.

### Send a message to a group

Send a text message to members of a group.

1. From **Contacts**, tap **Menu** > **Groups**, and then tap a group.
2. Tap **More options** > **Send message**.

### Send an email to a group

Send an email to members of a group.

1. From **Contacts**, tap **Menu** > **Groups**, and then tap a group.
2. Tap **More options** > **Send email**.
3. Tap contacts to select them, or tap the **All** checkbox at the top of the screen to select all, and then tap **Done**.
   - Only group members that have an email address in their records are displayed.
4. Choose an email account and follow the prompts.

### Delete a group

Delete a group you have created.

1. From **Contacts**, tap **Menu** > **Groups**, and then tap a group.
2. Tap **More options** > **Delete group**.
   - To only delete the group, tap **Group only**.
   - To delete the group and the contacts in the group, tap **Group and members**.

## Manage contacts

You can import or export contacts, as well as link multiple contacts into one contact entry.

### Import contacts

Import contacts to your device as vCard files (VCF).

1. From **Contacts**, tap **Menu** > **Manage contacts**.
2. Tap **Import/export contacts**.
3. Tap **Import** and follow the prompts.

## Export contacts

Export contacts from your device as vCard files (VCF).

1. From **Contacts** tap **Menu** > **Manage contacts**.
2. Tap **Import/export contacts**.
3. Tap **Export** and follow the prompts.

## Link contacts

Consolidate contact information from multiple sources into one contact by linking entries into a single contact.

1. From **Contacts**, tap the contact to select it.
2. Tap **More options** > **Link to another contact**.
3. Tap contacts to choose them.
4. Tap **Link**.

To unlink contacts:

1. From **Contacts**, tap the contact to select it.
2. Tap **More options** > **Add/remove linked contacts**.
3. Tap **Unlink** beside contacts to unlink them from the main contact.

## Delete contacts

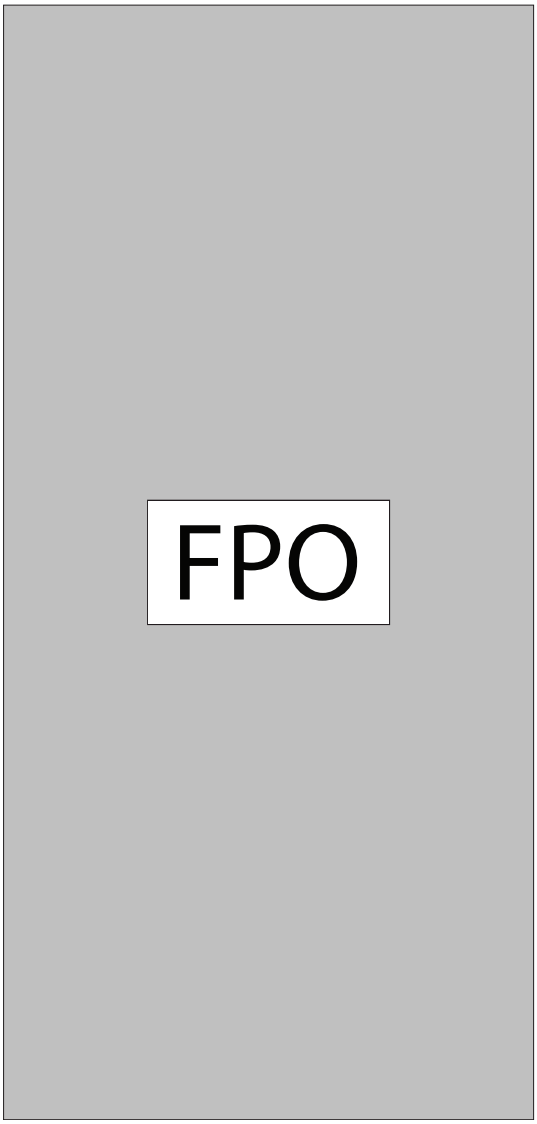
Delete a single contact or multiple contacts.

1. From **Contacts**, touch and hold a contact to select it.
   - You can also tap other contacts to select them for deletion.
2. Tap **Delete**, and confirm when prompted.

# Gallery

Go to the Gallery to look at the all the visual media stored on your device. You can view, edit, and manage pictures and videos.

- From Apps, tap **Gallery**.



## View pictures

Pictures stored on your device are viewable in the Gallery app.

1. From **Gallery**, tap **Pictures**.
2. Tap a picture to view it. Swipe left or right to view other pictures or videos.
   - To mark the picture as a favorite, tap **Favorite**.
   - To use Bixby Vision on the current picture, tap **Bixby Vision**. For more information, see **Bixby** on page 31.
   - To access the following features, tap **More options**:
     - **Details**: View and edit information about the picture.
     - **Set as wallpaper**: Set the picture as wallpaper.
     - **Send as live message**: Use Live message to draw an animation on a picture and share it.
     - **Move to Secure Folder**: Move the picture to a Secure Folder.
     - **Print**: Send the picture to a connected printer.

## Edit pictures

Enhance your pictures using the Gallery's editing tools.

1. From **Gallery**, tap **Pictures**.
2. Tap a picture to view it, and then tap **Edit** for the following options:
   - **Transform**: Rotate, flip, crop, or make other changes to the overall appearance of the picture.
   - **Effects**: Add color effects.
   - **Stickers**: Overlay illustrated or animated stickers.
   - **Text**: Add text to the picture.
   - **Draw**: Add handwritten text or hand drawn content.
   - **Brightness**: Adjust brightness image controls.

## Play video

View the videos stored on your device. You can save videos as favorites, and view video details.

1. From **Gallery**, tap **Pictures**.
2. Tap a video to view it. Swipe left or right to view other pictures or videos.
   - To mark the video as a favorite, tap **Favorite**. The video is added to Favorites under the Albums tab.
   - To access the following features, tap **More options**:
     - **Details**: View and edit information about the video.
     - **Send as live message**: Use Live message to draw an animation and share it.
     - **Move to Secure Folder**: Add this video to your Secure Folder.
3. Tap **Play video** to play the video.

## Edit video

Edit videos stored on your device.

1. From **Gallery**, tap **Pictures**.
2. Tap a video to view it.
3. Tap **Edit** to use the following tools:
   - **Rotate**: Rotate the video clockwise.
   - **Trim**: Cut segments of the video.
   - **Effects**: Add visual effects to the video.
   - **Beauty face**: Enhance faces.
   - **Caption**: Add text to your videos.
   - **Sticker**: Overlay illustrated or animated stickers.
   - **Doodle**: Draw on your video.
   - **Speed**: Adjust the play speed.
   - **Audio**: Adjust the volume levels and add background music to the video.
4. Tap **Save**, and then confirm when prompted.

## Share pictures and videos

Share pictures and videos from the Gallery app.

1. From **Gallery**, tap **Pictures**.
2. Tap **More options** > **Share**, and then tap pictures and videos to select them.
3. Tap **Share**, and then choose an app or connection to use for sharing your selection. Follow the prompts.

## Delete pictures and videos

Delete pictures and videos stored on your device.

1. From **Gallery**, tap **More options** > **Edit**.
2. Tap pictures and videos to select them, or tap the **All** checkbox at the top of the screen to select all pictures and videos.
3. Tap **Delete**, and confirm when prompted.

## Take a screenshot

Capture an image of your screen. Your device will automatically create a Screenshots album in the Gallery app.

- From any screen, press and hold the **Power** and **Volume down** keys.

### Palm swipe to capture a screenshot

Capture an image of the screen by swiping the edge of your hand across it, from side to side, keeping in contact with the screen.

1. From Settings, tap **Advanced features** > **Motions and gestures** > **Palm swipe to capture**.
2. Tap to enable this feature.

### Screenshot Settings

Control screenshot and screen recorder settings.

- From Settings, tap **Advanced features** > **Screenshots and screen recorder**.
  - **Screenshot toolbar**: Show additional options after you take a screenshot.
  - **Delete shared screenshots**: Automatically delete screenshots after they are shared through the screenshot toolbar.

## Screen recorder

Record activities on your device, write notes, and use the camera to record a video overlay of yourself to share with friends or family.

1. From Quick Settings, tap **Screen recorder** to begin recording.
   - Tap **Draw** to draw on the screen.
   - Tap **Selfie video** to include a recording from your front camera.
2. Tap **Stop** to finish recording. These are automatically saved to the Screen recording album in the Gallery.

### Screen recorder settings

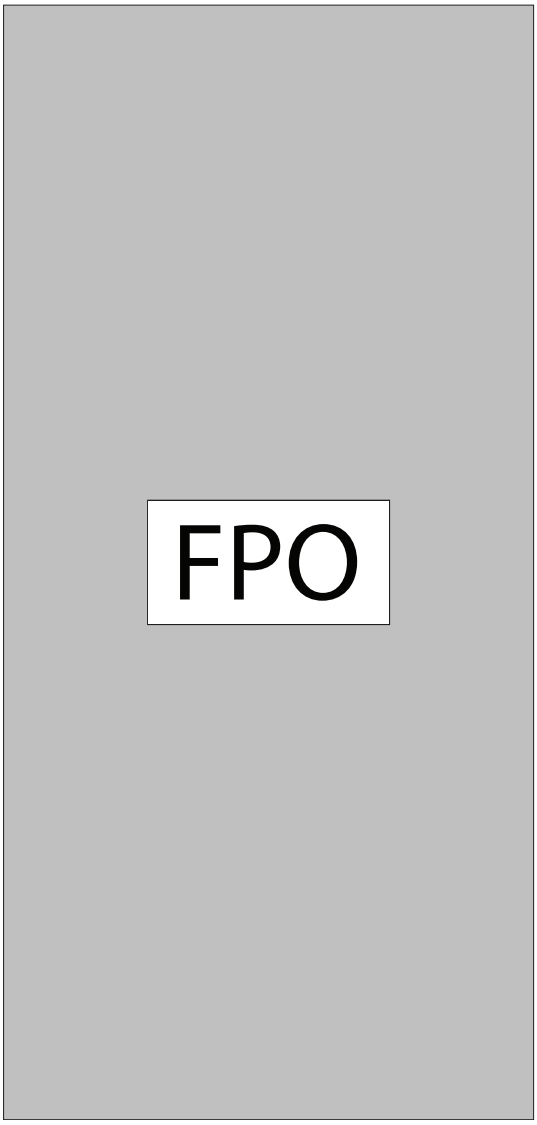
Control the sound and quality settings for the screen recorder.

- From Settings, tap **Advanced features** > **Screenshots and screen recorder** > **Screen recorder settings**
  - **Sound**: Choose what sounds to record while using the screen recorder.
  - **Video Quality**: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
  - **Selfie video size**: Drag the slider to set the size of the video overlay.

# Internet

Samsung Internet is a simple, fast, and reliable web browser for your device. Experience more secure Web browsing features with Secret Mode, Biometric Web Login, and Contents Blocker.

- From Apps, tap **Samsung** folder > **Internet**.




**TIP** Visit **samsung.com/us/support/owners/app/samsung-internet** for more information.

## Browser tabs

Use tabs to view multiple web pages at the same time.

- From **Internet**, tap **New tab**.
  - To close a tab, tap **Close tab**.

## Bookmarks

The Bookmarks page stores Bookmarks, Saved pages, and your browsing History.

### Open a Bookmark

Quickly launch a web page from the Bookmarks page.

1. From **Internet**, tap **Bookmarks**.
2. Tap a bookmark entry.

### Save a web page

Saving a web page stores its content on your device so that you can access it offline.

- From **Internet**, tap > **Add page to** > **Saved pages**.

**NOTE** To view saved web pages, tap > **Saved pages**.

### View history

To view a list of recently visited web pages:

- From **Internet**, tap > **History**.

**TIP** To clear your browsing history, tap **More options** > **Clear history**.

## Share pages

Web pages can be shared with your contacts.

- From **Internet**, tap > **Share**, and follow the prompts.

## Secret mode

Pages viewed in Secret mode are not listed in your browser history or search history, and leave no traces (such as cookies) on your device. Secret tabs are a darker shade than the normal tab windows.

Any downloaded files remain on your device after you close the secret tab.

1. From **Internet**, tap ☰ > **Turn on Secret mode**.
2. Tap **Set password** to protect your Secret mode data with a password.

To turn off Secret mode:

- From **Internet**, tap ☰ > **Turn off Secret mode**.

## Internet settings

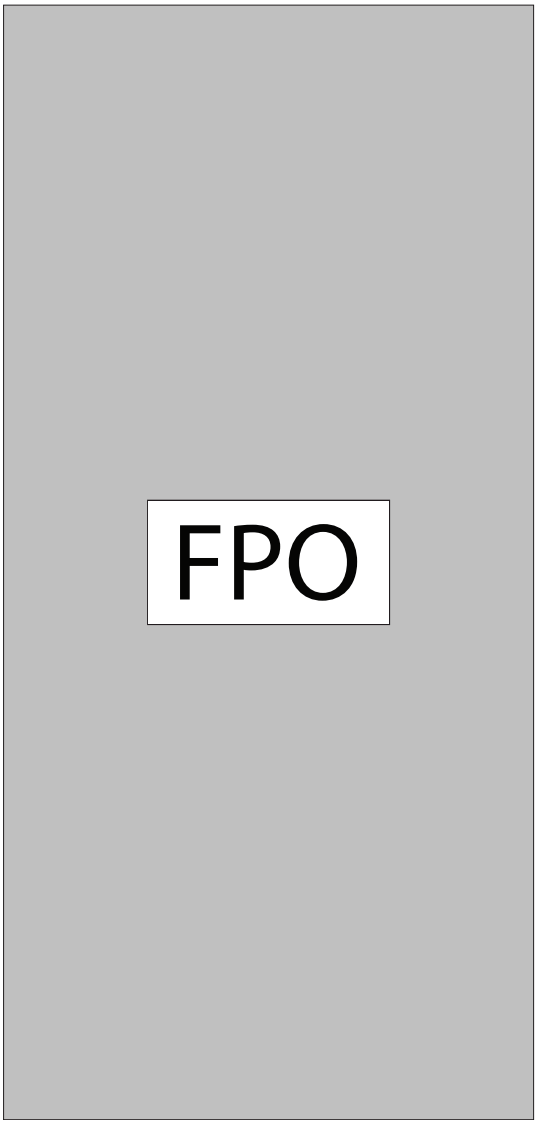
Modify settings associated with using the Internet app.

- From **Internet**, tap ☰ > **Settings**.

# My Files

View and manage files stored on your device, including images, videos, music, and sound clips.

- From Apps, tap **Samsung** folder > **My Files**.



## File groups

Files stored in the device are organized into the following groups:

- **Recent files**: View recently accessed files.
- **Categories**: View your files based on the file type.
- **Storage**: View files saved on your device and cloud accounts.
  - Cloud drives vary depending on the services you sign in to.
- **Storage analysis**: See what's taking up space in your storage.

## My Files options

Use My Files options to search, edit, clear file history, and more.

◌ From **My Files**, the following options are available:

- **Search**: Search for a file or folder.
- **More options**:
  - **Storage analysis**: See what's taking up space in your storage.
  - **Settings**: View settings for the app.
  - **Contact us**: Get connected with Samsung Members.

# Google apps

Enjoy these apps from Google.

## Chrome

Browse the Internet with Chrome™ and bring your open tabs, bookmarks, and address bar data from your computer to your mobile device.

Visit **support.google.com/chrome** to learn more.

## Drive

Open, view, rename, and share files saved to your Google Drive™ cloud account.

Visit **support.google.com/drive** to learn more.

## Duo

Make one-to-one video calls.

Visit **support.google.com/duo** to learn more.

## Gmail

Send and receive email with Google's web-based email service.

Visit **support.google.com/mail** to learn more.

## Google

Find online content with tools that learn what interests you. Turn on your personalized feed to receive customized content.

Visit **support.google.com/websearch** to learn more.

## Maps

Get directions and other location-based information. You must enable location services to use Google Maps. For more information, see **Location** on page 116.

Visit **support.google.com/maps** to learn more.

## Photos

Store and back up your photos and videos automatically to your Google Account with Google Photos™.

Visit **support.google.com/photos** to learn more.

## Play Movies & TV

Watch movies and TV shows purchased from Google Play. You can also view videos saved on your device.

Visit **play.google.com/store/movies** to learn more.

## Play Music

Play music and audio files on your device.

Visit **support.google.com/music** to learn more.

## Play Store

Find new apps, movies and TV shows, music, books, magazines, and games in the Google Play store.

Visit **support.google.com/play** to learn more.

## YouTube

Watch and upload YouTube™ videos right from your device.

Visit **support.google.com/youtube** to learn more.

# Carrier apps

Some apps require a data plan or paid subscription. Contact your carrier for additional information.

## Cloud

Back up and access your data. You can also use Verizon Cloud to transfer content between other devices.

## My Verizon

View details and manage your Verizon Wireless™ account. No airtime or minute charges apply when accessing My Verizon.

## Security & Privacy

Protect your device from digital threats, including viruses and malware, risky web sites, and from people accessing the information on your device if it is ever lost or misplaced.

# Settings

Access Settings

Connections

Sounds and vibration

Notifications

Display

Device maintenance

Lock screen and security

Accounts

Accessibility

Other settings

FPO

# Access Settings

There are a couple of ways to access your device settings.

- Drag down the Status bar, and then tap **Settings**.
- From Apps, tap **Settings**.

## Search for Settings

If you are not sure exactly where to find a certain setting, you can search for it.

1. From Settings, tap **Search**, and enter keywords.
2. Tap an entry to go to that setting.

# Connections

Manage connections between your device and a variety of networks and other devices.

## Wi-Fi

You can connect your device to a Wi-Fi network to access the Internet without using your mobile data.

1. From Settings, tap **Connections** > **Wi-Fi**, and then tap to turn on Wi-Fi and scan for available networks.
2. Tap a network, and enter a password if required.

### Manually connect to a Wi-Fi network

If the Wi-Fi network you want is not listed after a scan, you can still connect to it by entering the information manually.

Ask the Wi-Fi network administrator for the name and password before you begin.

1. From Settings, tap **Connections** > **Wi-Fi**, and then tap to turn on Wi-Fi.
2. Tap **Add network** at the bottom of the list.

3. Enter information about the Wi-Fi network:
   - **Network name**: Type the exact name of the network.
   - **Security**: Select a security option from the list, and enter the password if required.
   - **Auto reconnect**: Choose this option if you want to automatically reconnect to this network whenever you are in range.
   - **Advanced**: Add any advanced options, such as IP and Proxy settings.
4. Tap **Save**.

## Advanced Wi-Fi settings

You can configure connections to various types of Wi-Fi networks and hotspots, manage saved networks and look up your device's network addresses.

1. From Settings, tap **Connections** > **Wi-Fi**, and then tap to turn on Wi-Fi.
2. Tap **More options** > **Advanced**.
   - **Show Wi-Fi pop-up**: Alert me that Wi-Fi is available when opening apps.
   - **Manage networks**: View saved Wi-Fi networks and configure whether to auto reconnect to or forget individual networks.
   - **Wi-Fi control history**: View apps that have recently turned your Wi-Fi on or off.
   - **Hotspot 2.0**: Connect automatically to Wi-Fi networks that support Hotspot 2.0.
   - **Install network certificates**: Install authentication certificates.
   - **MAC address**: View your device’s MAC address, which is required when connecting to some secured networks (not configurable).
   - **IP address**: View your device’s IP address (not configurable).

## Wi-Fi Direct

Wi-Fi Direct uses Wi-Fi to share data between devices.

1. From Settings, tap **Connections** > **Wi-Fi**, and then tap to turn on Wi-Fi.
2. Tap **Wi-Fi Direct**.
3. Tap a device, and then follow the prompts to connect.

**TIP** When sharing a file, tap **Wi-Fi Direct** to use this feature.

### Disconnect from Wi-Fi Direct

Disconnect your device from a Wi-Fi Direct device.

- From Settings, tap **Connections** > **Wi-Fi** > **Wi-Fi Direct**. Tap a device to disconnect it.

# Bluetooth

You can pair your device to other Bluetooth®-enabled devices, like Bluetooth headphones or a Bluetooth-enabled vehicle infotainment system. Once a pairing is created, the devices remember each other and can exchange information without having to enter the passkey again.

1. From Settings, tap **Connections** > **Bluetooth**, and then tap to turn on Bluetooth.
2. Tap a device and follow the prompts to connect.

**TIP** When sharing a file, tap **Bluetooth** to use this feature.

## Rename a paired device

You can rename a paired device to make it easier to recognize.

1. From Settings, tap **Connections** > **Bluetooth**, and then tap to turn on Bluetooth.
2. Tap **Settings** next to the device name, and then tap **Rename**.
3. Enter a new name, and tap **Rename**.

### Unpair from a Bluetooth device

When you unpair from a Bluetooth device, the two devices no longer recognize each other.

1. From Settings, tap **Connections** > **Bluetooth**, and then tap to turn on Bluetooth.
2. Tap **Settings** next to the device, and then tap **Unpair**.

**TIP** You will need to pair with the device again in order to connect to it.

### Advanced options

Additional Bluetooth features are available in the Advanced menu.

1. From Settings, tap **Connections** > **Bluetooth**.
2. Tap **More options** > **Advanced** for the following options:
   - **Tablet name**: Change the name of your device for Bluetooth connections.
   - **Received files**: View a list of files received using Bluetooth.
   - **Dual audio**: Play audio from your device to two connected Bluetooth devices.
   - **Media volume sync**: Sync the volume level set on the connected Bluetooth devices to your device.
   - **Bluetooth control history**: View apps that have used Bluetooth recently.

## Tablet visibility

Turn on visibility to allow other Bluetooth devices to find your device.

- From Settings, tap **Connections** > **Tablet visibility**, and then tap to make your device visible.

## Airplane mode

Airplane mode disconnects your device from all networks and turns off connectivity features.

1. From Settings, tap **Connections** > **Airplane mode**.
2. Tap to enable this feature.

# Data usage

Check your current mobile and Wi-Fi data usage. You can also customize warnings and limits.

- From Settings, tap **Connections** > **Data usage**.

## Monitor Wi-Fi data

You can restrict Wi-Fi data access by customizing usage limits and networks.

1. From Settings, tap **Connections** > **Data usage**.
2. Tap **Wi-Fi data usage** to view data usage over Wi-Fi connections over a period of time. You can view total usage as well as usage by app.

# Mobile hotspot

Mobile hotspot uses your data plan to create a Wi-Fi network that can be used by multiple devices.

1. From Settings, tap **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap to turn on Mobile hotspot.
3. On the devices you want to connect, activate Wi-Fi and select your device's Mobile hotspot. Enter the Mobile hotspot password to connect.

**TIP** Check with your carrier about service fees.

## Change the mobile hotspot password

You can customize your Mobile hotspot password to make it easier to remember.

1. From Settings, tap **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap the password, enter a new password, and then tap **Save**.

## Allowed devices list

Create a custom list of devices that are allowed to connect to your Mobile hotspot.

1. From Settings, tap **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap **More options** > **Allowed devices**, and then tap **Add** to enter the other device's Device name and MAC address.
3. Tap **Add** to add the device.
   - To restrict connections to your Allowed devices list, tap **Allowed devices only**.

**TIP** You need the device name and MAC address of devices that you want to add to the Allowed devices list.

## Configure mobile hotspot settings

You can customize your mobile hotspot's security and connection settings.

1. From Settings, tap **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap **More options** > **Configure mobile hotspot** for the following settings:
   - **Network name**: View and change the name of your Mobile hotspot.
   - **Hide my device**: Prevent your Mobile hotspot from being discoverable by other devices.
   - **Security**: Choose the security level for your Mobile hotspot.
   - **Password**: If you choose a security level that uses a password, you can view or change it.
   - **Show advanced options**: Configure additional Mobile hotspot settings.

### Timeout settings

You can set the Mobile hotspot to automatically turn off when there are no connected devices.

1. From Settings, tap **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap **More options** > **Timeout settings**, and then select an interval.

**TIP** This feature can help you manage your data usage.

## Tethering

You can use tethering to share your device's Internet connection with another device.

1. From Settings, tap **Connections** > **Mobile hotspot and tethering**.
2. Tap an option:
   - Tap **Bluetooth tethering** to share your device's Internet connection using Bluetooth.
   - Connect the computer to the device using a USB cable, and then tap **USB tethering**.

## Call and message continuity

This feature allows you to make and answer calls and text messages from your phone and tablet.

1. From Settings, tap **Connections** > **Call & message continuity**.
2. Tap to turn on the feature. Connection occurs automatically.
3. Sign in to your Samsung account on both devices.

**TIP** Move your contacts from your phone to your Samsung account so you can access them on all registered devices.

## Nearby device scanning

Easily set up connections to other available devices by turning on Nearby device scanning. This feature sends you a notification when there are available devices to connect to.

1. From Settings, tap **Connections** > **More connection settings** > **Nearby device scanning**.
2. Tap to turn on the feature.

## Connect to a printer

Connect your device to a printer on the same Wi-Fi network to easily print documents and images from your device.

1. From Settings, tap **Connections** > **More connection settings** > **Printing**.
2. Tap **Download plugin** and follow the prompts to add a print service.
3. Tap the print service, and then tap **More options** > **Add printer**.

**TIP** Make sure the app you want to print from supports printing.

## Download booster

Download booster improves download speed by using both Wi-Fi and 4G LTE networks at the same time when downloading files over 30 MB in size.

- From Settings, tap **Connections** > **More connection settings** > **Download booster**, and tap to enable.

**NOTE** Download booster uses mobile data services.

# Virtual Private Networks

A Virtual Private Network (VPN) allows you to connect to a private secured network from your device. You will need the connection information from your VPN administrator.

1. From Settings, tap **Connections** > **More connection settings** > **VPN**.
2. Tap **More options** > **Add VPN profile**.
3. Enter the VPN network information provided by your network administrator, and tap **Save**.

**TIP** A secured screen lock is required to set up a VPN.

## Manage a VPN

Use the VPN settings menu to edit or delete a VPN connection.

1. From Settings, tap **Connections** > **More connection settings** > **VPN**.
2. Tap **Settings** next to a VPN.
3. Edit the VPN and tap **Save**, or tap **Delete** to remove the VPN.

## Connect to a VPN

Once you have set up a VPN, connecting to and disconnecting from a VPN is easy.

1. From Settings, tap **Connections** > **More connection settings** > **VPN**.
2. Tap a **VPN**, enter your log in information, and tap **Connect**.
   - To disconnect, tap the VPN, and then tap **Disconnect**.

# Private DNS

You can configure your device to connect to a private DNS host.

1. From Settings, tap **Connections** > **More connection settings** > **Private DNS**.
2. Tap one of the available options to configure a private DNS connection.
3. Tap **Save**.

## Ethernet

If wireless network connection is not available, you can use an Ethernet cable to connect your device to a local network.

1. Connect an Ethernet cable to your device.
2. From Settings, tap **Connections** > **More connection settings** > **Ethernet**, and follow the prompts.

**TIP** You need an adapter (not included) to connect an Ethernet cable to your device.

## View Verizon account

Access your Verizon account.

- From **Settings**, tap **Connections** > **More connection settings** > **View Verizon account**.

# Sounds and vibration

You can control the sounds and vibrations used to indicate notifications, screen touches, and other interactions.

## Sound mode

You can change the sound mode on your device without using the volume keys.

- From Settings, tap **Sounds and vibration** > **Sound mode,** and then choose a mode:
  - **Sound**: Use the sounds, vibrations, and volume levels you have chosen in Sound settings for notifications and alerts.
  - **Vibrate**: Use vibration only for notifications and alerts.
  - **Mute**: Set your device to make no sounds.
    - **Temporary mute**: Set a time limit for muting the device.

**TIP** Use the sound mode setting instead of the volume keys to change the sound mode without losing your customized sound levels.

### Easy mute

Quickly mute sounds by covering the screen or turning the device over.

- From Settings, tap **Advanced features** > **Motions and gestures** > **Easy mute**, and tap to enable.

# Vibrations

You can control how and when your device vibrates

1. From Settings, tap **Sounds and vibration**.
2. Tap options to customize:
   - **Vibrate while ringing**: Set your device to vibrate in addition to ringing when you receive a call.
   - **Vibration pattern**: Choose from preset vibration patterns.

# Notification sounds

Customize notification sounds for certain apps or choose a default for all notifications.

- From Settings, tap **Sounds and vibration** > **Notification sounds** and tap a sound to choose it.

# Volume

Set the volume level for call ringtones, notifications, and other audio.

- From Settings, tap **Sounds and vibration** > **Volume**, and drag the sliders.

**TIP** You can also use the **Volume** key to adjust the volume. Slide the volume controls to customize all volume options.

## Use Volume keys for media

Set the default of the Volume key to control the media volume.

1. From Settings, tap **Sounds and vibration**.
2. Tap **Use Volume keys for media** to enable this feature.

## System sounds

Customize your device's sounds and vibrations for actions like tapping the screen and charging the device.

- From Settings, tap **Sounds and vibration** > **System sounds** for the following options:
  - **Touch sound**: Play tones when you touch or tap the screen to make selections.
  - **Screen lock sound**: Play a sound when you unlock the screen.
  - **Charging sound**: Play a sound when a charger is connected.
  - **Dialing keypad tone**: Play a tone when dialing numbers on the Phone keypad.
  - **Keyboard sound**: Play a sound when typing with the Samsung keyboard.

## Dolby Atmos

Enjoy Dolby Atmos quality when playing content that was specifically mixed for Atmos. This feature may only be available with a headset connected.

- From Settings, tap **Sounds and vibration** > **Advanced sound settings** > **Sound quality and effects** for the following options:
  - **Dolby Atmos**: Experience breakthrough audio that flows above and around you.
  - **Dolby Atmos for gaming**: Apply Dolby Atmos optimized for gaming.

## Equalizer

Choose an audio preset that is customized to different genres of music, or manually change your audio settings.

1. From Settings, tap **Sounds and vibration** > **Advanced sound settings** > **Sound quality and effects**.
2. Tap **Equalizer** to choose a music genre.

## Headset audio options

Enhance the sound resolution of music and videos for a clearer listening experience. These features are only available with a headset connected.

- From Settings, tap **Sounds and vibration** > **Advanced sound settings** > **Sound quality and effects**, and tap an option to turn it on:
  - **UHQ upscaler**: Sharpens audio resolution for crisp sound.

## Adapt sound

Customize the sound for each ear and enhance your listening experience.

1. From Settings, tap **Sounds and vibration** > **Advanced sound settings** > **Sound quality and effects** > **Adapt sound.**
2. Tap the sound profile that fits you best, and tap **Settings** to customize.

**TIP** Tap **Add personalized sound profile** to take a hearing test and let your device identify the best sound for you.

## Separate app sound

You can play media sound on a speaker or headphones separate from the rest of the sounds on your device.

1. From Settings, tap **Sounds and vibration** > **Advanced sound settings** > **Separate app sound**.
2. Tap to enable Separate app sound, and then set the following options:
   - **App**: Choose an app to play its sound on a separate audio device.
   - **Audio device**: Choose the audio device that you want the app's sound to be played on.

**TIP** You need to connect to a Bluetooth device to make this option available in the Audio device menu.

# Notifications

You can prioritize and streamline app alerts by changing which apps send notifications and how notifications alert you.

## Manage notifications

You can configure notifications from apps and services.

- From Settings, tap **Notifications**.
  - **App icon badges**: Identify which apps have active notifications with badges that appear on their icons. Tap to choose whether or not badges indicate the number of unread notifications.
  - **Do not disturb**: Block sounds and notifications while this mode is turned on. Specify exceptions for people, apps, and alarms.
  - **Status bar**: Modify how many notifications appear on the Status bar.
  - To block notifications from an app, tap next to the app. Tap **See all** to open the complete list of apps.

## Customize app notifications

You can change notification settings for each app.

1. From Settings, tap **Notifications** > **See all**.
2. Tap an app for the following options:
   - **Show notifications**: Receive notifications from this app.
   - **App icon badges**: Show a badge on the icon when there are notifications.
   - **Categories**: Configure notification options that are specific to this app.

## Smart pop-up view

Receive notifications as icons that can be tapped and expanded in pop-up view.

- From Settings, tap **Advanced features** > **Smart pop-up view**, and tap to enable.

# Display

You can configure the screen brightness, timeout delay, font size, and many other display settings.

## Screen brightness

Adjust the screen brightness according to lighting conditions or personal preference.

1. From Settings, tap **Display**.
2. Customize options under Brightness:
   - Drag the **Brightness** slider to set a custom brightness level.
   - Tap **Adaptive brightness** to automatically adjust the screen brightness based on the lighting conditions.

## Blue light filter

The Blue light filter can help you sleep better if you use your device at night. You can set a schedule to automatically turn this feature on and off.

- From Settings, tap **Display** > **Blue light filter**, and then choose one of the following options:
  - Drag the **Opacity** slider to set the opacity of the filter.
  - Tap **Turn on now** to enable this feature.
  - Tap **Turn on as scheduled** to set a schedule for when Blue light filter should be enabled. You can choose **Sunset to sunrise** or **Custom schedule**.

## Night mode

Night mode allows you to switch to a darker theme to keep your eyes more comfortable at night.

- From Settings, tap **Display** > **Night mode** for the following options:
  - **Turn on now**: Put your device in Night mode.
  - **Turn on as scheduled**: Configure Night mode for either **Sunset to sunrise** or **Custom schedule**.

## Screen mode

Your device has several screen mode options which adjust the screen quality for different situations. You can select the mode according to your preference.

1. From Settings, tap **Display** > **Screen mode**.
2. Tap an option to set a different screen mode.

## Font size and style

You can change the font size and style to customize your device.

- From Settings, tap **Display** > **Font size and style** for the following options:
  - Drag the **Font size** slider to adjust the size of text.
  - Tap **Font style** to choose a different font.
    - Tap a font to select it, or tap **Download fonts** to add fonts from Galaxy Store.
  - Tap **Bold font** to make all fonts appear with bold weight.

## Screen zoom

Adjust the zoom level to increase or decrease the size of content on the screen.

1. From Settings, tap **Display** > **Screen zoom**.
2. Drag the **Screen zoom** slider to adjust the zoom level.

## Screen timeout

You can set the screen to turn off after a set amount of time.

- From Settings, tap **Display** > **Screen timeout**, and tap a time limit to set it.

## Screen saver

You can display colors or photos when the screen turns off or while charging.

1. From Settings, tap **Display** > **Screen saver**.
2. Tap to enable the feature and configure the following options:
   - **Colors**: Tap the selector to display a changing screen of colors.
   - **Photo table**: Display pictures in a photo table.
   - **Photo frame**: Display pictures in a photo frame.
   - **Photos**: Display pictures from your Google Photos account.
3. Tap **Preview** for a demonstration of the selected Screen saver.

**TIP** Tap **Settings** next to a feature for additional options.

## Reduce animations

Decrease certain motion effects, such as when opening apps.

- From Settings, tap **Advanced features** > **Reduce animations,** and tap to enable the feature.

## Double tap to wake

Turn on the screen by double-tapping instead of using the Power button.

- From Settings, tap **Advanced features** > **Motions and gestures** > **Double tap to wake**, and tap to enable.

## Smart stay

Smart stay uses the front camera to detect your face so that the screen stays on while you are looking at it.

- From Settings, tap **Advanced features** > **Motions and gestures** > **Smart stay**, and tap to enable the feature.

# Device maintenance

View the status of your device's battery, storage, and memory. You can also automatically optimize your device's system resources.

## Quick optimization

The quick optimization feature improves device performance through the following actions:

- Identifying apps that use excessive battery power and clearing unneeded items from memory.
- Deleting unnecessary files and closing apps running in the background.
- Scanning for malware.

To use the quick optimization feature:

- From Settings, tap **Device care** > **Optimize now**.

## Battery

View how battery power is used for your various device activities.

- From Settings, tap **Device care** > **Battery** for options:
  - **Battery usage**: View power usage by app and service.
  - **Power mode**: Select a power mode to extend battery life.
  - **Usage by apps**: View power usage by app today or over the past week.
  - **More options** > **Settings**: Configure advanced battery settings and notifications.

# Storage

View the device storage and usage. You can also mount, unmount, or format an optional memory card (not included).

## Device storage

Quickly optimize your device's storage, increasing available memory.

- From Settings, tap **Device care** > **Storage** > **Clean now**.

## Memory card

Once an optional microSD memory card (not included) has been installed in your device, the card memory is displayed in the Storage setting.

For more information, see **Assemble your device** on page 5.

### Mount a memory card

When you install an optional memory card, it is automatically mounted (connected to the device) and prepared for use. However, should you unmount the card without removing it from the device, you need to mount it before it can be accessed.

1. From Settings, tap **Device care** > **Storage**.
2. Tap **More options** > **Storage settings**.
3. Under **Portable storage**, tap your SD card, and then tap **Mount**.

### Remove a memory card

To prevent damage to information stored on the memory card, unmount the card before removing it from the device.

1. From Settings, tap **Device care** > **Storage**.
2. Tap **More options** > **Storage settings**.
3. Under **Portable storage**, tap your SD card, and then tap **Unmount**.
4. Remove your memory card from the device.

### Format a memory card

When formatting an SD card, you should back up your music and photo files that are stored on the card because formatting the SD card deletes **ALL** stored files.

1. From Settings, tap **Device care** > **Storage**.
2. Tap **More options** > **Storage settings**.
3. Under **Portable storage**, tap your SD card, tap **Format**, and then follow the prompts.

## Memory

Check the amount of available memory. You can close background apps and reduce the amount of memory you are using to speed up your device.

1. From Settings, tap **Device care** > **Memory**.
   - The used and available memory are shown.
2. To free up as much memory as possible, tap **Clean now** and follow the prompts.
   - The selected apps and services in the list will be closed.

## Security

Scan your device with anti-malware to keep it secure and protected from suspicious activities.

1. From Settings, tap **Device care** > **Security**.
2. Tap **Activate** to scan your device.

# Language and input

Configure your device's language and input settings.

## Change the device language

You can add languages to your list and organize them according to preference. If an app does not support your default language, then it will move to the next supported language in your list.

1. From Settings, tap **General management** > **Language and input** > **Language**.
2. Tap **Add language**, and select a language from the list.
3. Tap **Set as default** to change the device language.
   - To switch to another language on the list, drag **Move** next to the desired language to the top of the list, and then tap **Apply**.

## Default keyboard

You can select a default keyboard for your device's menus and keyboards. Additional keyboards can be downloaded from the Google Play store.

1. From Settings, tap **General management** > **Language and input**.
2. Tap **Default keyboard**, and select a keyboard.

## Google Voice typing

Speak rather than type your text entries using Google Voice™ typing.

1. From Settings, tap **General management** > **Language and input**.
2. Tap **On-screen keyboard** > **Google Voice typing** to customize settings.

## Manage on-screen keyboards

Enable or disable on-screen keyboards.

1. From Settings, tap **General management** > **Language and input**.
2. Tap **On-screen keyboard** > **Manage keyboards**.
3. Tap each keyboard to enable or disable.

## Physical keyboards

Customize options when you have a physical keyboard connected to your device (sold separately).

1. From Settings, tap **General management** > **Language and input**.
2. Tap **Physical keyboard**, and then choose an option:
   - **Show on-screen keyboard**: Show the on-screen keyboard while a physical keyboard is also being used.
   - **Keyboard shortcuts**: Show explanations of the keyboard shortcuts on the screen.

## Show keyboard button

Show a button on the Navigation bar to quickly switch between keyboards.

1. From Settings, tap **General management** > **Language and input**.
2. Tap **Show keyboard button** to enable this feature.

## Autofill service

Save time entering information using autofill services.

1. From Settings, tap **General Management** > **Language and input**.
2. Tap **Autofill service** and select your preferred service.

## Text-to-speech

Configure your Text-to-Speech (TTS) options. TTS is used for various accessibility features, such as Voice Assistant.

- From Settings, tap **General management** > **Language and input** > **Text-to-speech** for options:
  - **Preferred engine**: Choose either the Samsung or Google Text-to-speech engine. Tap **Settings** for options.
  - **Language**: Set the default speech language.
  - **Speech rate**: Set the speed at which the text is spoken.
  - **Pitch**: Set the pitch of the speech.

- **Play**: Tap to play a short demonstration of speech synthesis.
- **Reset**: Reset the speech rate and pitch.

### Pointer speed

Configure pointer speed for an optional mouse or trackpad (not included).

1. From Settings, tap **General management** > **Language and input**.
2. Under **Pointer speed**, drag the slider to the right to go faster or to the left to go slower.

### Primary mouse button

You can define which mouse button that you favor as primary.

1. From Settings, tap **General management** > **Language and input**.
2. Tap **Primary mouse button**, and choose either **Left** or **Right**.

## Date and time

By default, your device receives date and time information from the wireless network. Outside of network coverage, you can set the date and time manually.

- From Settings, tap **General management** > **Date and time**. The following options are available:
  - **Automatic date and time**: Receive date and time updates from your wireless network. When Automatic date and time is disabled, the following options are available:
    - **Select time zone**: Choose a new time zone.
    - **Set date**: Enter the current date.
    - **Set time**: Enter the current time.
  - **Use 24-hour format**: Set the format for displaying time.

# Troubleshooting

You can also check for software updates, and if necessary, reset services on your device.

## System updates

Check for and install available software updates for your device.

- From Settings, tap **System updates** for the following options:
  - **Check for system updates**: Manually check for available software updates.
  - **Show system update history**: View previous software updates.
  - **Automatic security updates**: Install security updates automatically.
  - **Use Software Upgrade Assistant**: Install a tool to install system updates.

## Reset

Reset device and network settings. You can also reset your device to its factory defaults.

### Reset settings

You can reset your device to its factory default settings, which resets everything except the security, language, and account settings. Personal data is not affected.

1. From Settings, tap **General management** > **Reset** > **Reset settings**.
2. Tap **Reset settings**, and confirm when prompted.

### Reset network settings

You can reset Wi-Fi, mobile data, and Bluetooth settings with Reset network settings.

1. From Settings, tap **General management** > **Reset** > **Reset network settings**.
2. Tap **Reset settings**, and confirm when prompted.

### Reset accessibility settings

You can reset device accessibility settings. Accessibility settings in downloaded apps and your personal data are not affected.

1. From Settings, tap **General management** > **Reset** > **Reset accessibility settings**.
2. Tap **Reset settings**, and confirm when prompted.

### Auto restart

Optimize your device by restarting it automatically at set times. Any unsaved data will be lost when the device restarts.

1. From Settings, tap **General management** > **Reset** > **Auto restart**.
2. Tap to activate Auto restart, and then set the following parameters:
   - **Days**: Select the day of the week to automatically restart your device.
   - **Time**: Set the time of day to restart your device.

## Factory data reset

You can reset your device to factory defaults, erasing all data from your device.

This action permanently erases ALL data from the device, including Google or other account settings, system and application data and settings, downloaded applications, as well as your music, photos, videos, and other files.

**NOTE** When you sign in to a Google Account on your device, Factory Reset Protection is activated. This protects your device in the event it is lost or stolen.

If you reset your device to factory default settings with the Factory Reset Protection (FRP) feature activated, you must enter the user name and password for a registered Google Account to regain access to the device. You will not be able to access the device without the correct credentials.

**NOTE** If you reset your Google Account password, it can take 24 hours for the password reset to sync with all devices registered to the account.

Before resetting your device:

1. Verify that the information you want to keep has transferred to your storage area.
2. Log in to your Google Account and confirm your user name and password.

To reset your device:

1. From Settings, tap **General management** > **Reset** > **Factory data reset**.
2. Tap **Reset** and follow the prompts to perform the reset.
3. When the device restarts, follow the prompts to set up your device.

## Factory reset protection

When you sign in to a Google Account on your device, Factory Reset Protection is activated. Factory Reset Protection (FRP) prevents other people from using your device if it is reset to factory settings without your permission. For example, if your device is lost or stolen and a factory data reset is performed, only someone with your Google Account username and password can use the device.

You will not be able to access the device after a factory data reset if you do not have your Google Account username and password.

**CAUTION** Before sending your device to Samsung or taking it to a Samsung-authorized service center, remove your Google Account and then perform a factory data reset. For more information, visit **samsung.com/us/support/frp**.

## Enable factory reset protection

Adding a Google Account to your device automatically activates the FRP security feature.

## Disable factory reset protection

To disable FRP, remove all Google Accounts from the device.

1. From Settings, tap **Accounts and backup** > **Accounts** > **[Google Account]**.
2. Tap **Remove account**.

# Lock screen and security

You can secure your device and protect your data by setting a screen lock.

## Screen lock types

You can choose from the following screen lock types that offer high, medium, or no security: Swipe, Pattern, PIN, Password, and None.

**NOTE** Biometric locks are also available to protect access to your device and sensitive data on your device. For more information, see **Flexible security** on page 33.

### Set a secure screen lock

It is recommended that you secure your device using a secure screen lock (Pattern, PIN, or Password).

1. From Settings, tap **Lock screen** > **Screen lock type** and tap a secure screen lock (**Pattern**, **PIN**, or **Password**).
2. Tap to enable showing notifications on the lock screen. The following options are available:
   - **View style**: Display notification details or hide them and show only an icon.
   - **Hide content**: Do not show notifications in the notification panel.
3. Tap **Done** when finished.
4. Configure the following screen lock options:
   - **Smart Lock**: Unlock your device automatically when trusted locations or other devices have been detected. A secure screen lock is required for this feature.
   - **Secure lock settings**: Customize your secure lock settings. A secure screen lock is required for this feature.

## Clock and information

You can configure features that appear on the Lock screen, like the clock and other useful information.

- From Settings, tap **Lock screen** for the following options:
  - **Clock style**: Set the type and color of the clock on the Lock screen.
  - **Roaming clock**: Change to digital clocks showing both local and home time zones when roaming.
  - **FaceWidgets**: Enable widgets on the Lock screen to get quick access to useful information.
  - **Contact information**: Show your contact information, such as your phone number or email address.
  - **Notifications**: Select which notifications to display on the Lock screen.
  - **App shortcuts**: Select which apps to open from the Lock screen.
  - **Lock screen to show**: Select which lock screen to show.
  - **About Lock screen**: Update the Lock screen's software.

## Google Play Protect

You can configure Google Play Protect to regularly check your apps and device for security risks and threats.

1. From Settings, tap **Biometrics and security** > **Google Play Protect**.
2. Tap options to customize security features.

## Find My Device

You can protect your device from loss or theft by allowing your device to be locked, tracked online, and for your data to be deleted remotely.

1. From Settings, tap **Biometrics and security** > **Find My Device**.
   - If you are not logged in to a Google Account, tap **Find My Device won't work** and follow the prompts to sign in.

2. The following options are available:
   - **Find My Device**: Download the app from Google Play.
   - **Web**: Access Find My Device on the Internet.
   - **Google**: Search for “find my device” topics online.

**TIP** A Google Account is required, and Google location service must be turned on.

## Security update

You can easily check the date of the last installed security software update and find out if newer updates are available.

- From Settings, tap **Biometrics and security** > **Security update** to see the latest security update installed and check if a newer update is available.

## Samsung Pass

Use Samsung Pass to access your favorite services with biometric data. You must sign in to your Samsung account to use Samsung Pass.

Visit **samsung.com/us/support/owners/app/samsung-pass** to learn more.

1. From Settings, tap **Biometrics and security** > **Samsung Pass**.
2. Sign in to your Samsung account and add your biometric data.

## Install unknown apps

You can allow installation of unknown third-party apps from selected apps or sources.

1. From Settings, tap **Biometrics and security** > **Install unknown apps**.
2. Tap an app or source, and then tap **Allow from this source**.

**TIP** Installing unknown third-party apps could make your device and personal data more vulnerable to security risks.

# Secure Folder

You can create a secure folder on your device to protect private content and apps from anyone who may be using your device.

- From Settings, tap **Biometrics and security** > **Secure Folder** and follow the prompts to secure content on your device.

**TIP** You must sign in to your Samsung account, and use secured lock on your device to set up and use Secure Folder.

# Encrypt SD card

You can encrypt your optional memory card (not included) to protect its data. This only allows the SD card information to be accessed from your device with a password.

1. From Settings, tap **Biometrics and security** > **Encrypt SD card**.
2. Tap **Encrypt SD card** and follow the prompts to encrypt all data on your memory card.

**NOTE** Performing a Factory data reset on your device prevents it from accessing an encrypted SD card. Before initiating a Factory data reset, make sure to decrypt the installed SD card first.

## Decrypt SD card

You can decrypt an optional memory card (not included) if it was encrypted by this device. You may want to decrypt the memory card if you plan to use it with another device or before performing a Factory data reset.

1. From Settings, tap **Biometrics and security** > **Decrypt SD card**.
2. Tap **Decrypt SD card** and follow the prompts to decrypt all data on your memory card.

## Set up SIM card lock

You can set up a PIN to lock your SIM card, which prevents unauthorized use of your SIM card if someone attempts to use it another device.

- From Settings, tap **Biometrics and security** > **Other security settings** > **Set up SIM card lock** and follow the prompts.
  - Tap **Lock SIM card** to turn on the feature.
  - Tap **Change SIM card PIN** to create a new PIN.

## View passwords

You can have characters displayed briefly in password fields as you type them.

- From Settings, tap **Biometrics and security** > **Other security settings** > **Make passwords visible** to turn on the feature.

## Security update service

You can set your device to automatically check for security updates.

- From Settings, tap **Biometrics and security** > **Other security settings**, and then tap **Security policy updates** to check for security updates.

## Device administration

You can authorize security features and apps (like Find My Device) to have administrative access to your device.

1. From Settings, tap **Biometrics and security** > **Other security settings** > **Device admin apps**.
2. Tap an option to turn it on as a device administrator.

## Credential storage

You can manage the trusted security certificates installed on your device, which verify the identity of servers for secure connections.

- From Settings, tap **Biometrics and security** > **Other security settings** for the following options:
  - **Storage type**: Select a storage location for credential contents.
  - **View security certificates**: Display certificates in your device's ROM and other certificates you have installed.
  - **User certificates**: View user certificates that identify your device.
  - **Install from device storage**: Install a new certificate from storage.
  - **Clear credentials**: Erase credential contents from the device and reset the password.

## Strong Protection

Better protect your device by encrypting it using a secure lock type.

- From Settings, tap **Biometrics and security** > **Other security settings** > **Strong protection**, and then tap to enable this feature.

## Advanced security settings

You can use these options to configure advanced security settings to better protect your device.

- From Settings, tap **Biometrics and security** > **Other security settings** for the following options:
  - **Trust agents**: Allow trusted devices to perform selected actions when connected.
    - This option is only displayed when a lock screen is turned on. For more information, see **Set a secure screen lock** on page 110.
  - **Pin windows**: Pin an app on your device screen, which prevents access to other features of your device.

# Location

Location services use a combination of GPS, mobile network and Wi-Fi to determine the location of your device.

1. From Settings, tap **Biometrics and security** > **Location**.
2. Tap to turn on Location services.
3. Tap **Improve accuracy** to use other connections for determining your location:
   - **Wi-Fi scanning**: Allow apps and services to scan for Wi-Fi networks automatically, even when Wi-Fi is turned off.
   - **Bluetooth scanning**: Allow apps to scan for and connect to nearby devices automatically through Bluetooth, even when Bluetooth is turned off.

**TIP** Some apps require location services be turned on for full functionality.

## Recent location requests

View a list of apps that have requested your location.

1. From Settings, tap **Biometrics and security** > **Location**.
2. Tap to turn on Location services.
3. Tap an entry under **Recent location requests** to view the app's settings.

## Location services

Location services store and use your device's most recent location data. Certain apps can use this data to improve your search results based on places that you have visited.

1. From Settings, tap **Biometrics and security** > **Location**.
2. Tap an entry under **Location services** to see how your location information is used.

## App permissions

Apps might access features of your device that you permit them to (like the camera, microphone, or location) when they are running in the background, not just when you are using the app. You can set your device to notify you when this happens.

1. From Settings, tap **Biometrics and security** > **App permissions**.
2. Tap a category, and tap next to the apps you want to be notified about.
   - Tap an app to select which permissions you want to be notified about.

## Send diagnostic data

Send diagnostic information about your device to Samsung when you are having technical problems.

1. From Settings, tap **Biometrics and security** > **Send diagnostic data**.
2. Read and accept the consent information to enable this feature.

# Accounts

You can connect to and manage your accounts, including your Google Account, Samsung account, email, and social networking accounts.

## Add an account

You can add and sync all your email, social networking, and picture and video sharing accounts.

1. From Settings, tap **Accounts and backup** > **Accounts** > **Add account**.
2. Tap one of the account types.
3. Follow the prompts to enter your credentials and set up the account.
   - Tap **Auto sync data** to enable automatic updates to your accounts.

# Account settings

Each account has its own custom settings. You can configure common settings for all accounts of the same type. Account settings and available features vary between account types.

1. From Settings, tap **Accounts and backup** > **Accounts** > **[Account type]**.
2. Tap an account to configure that account's sync settings.
3. Tap other available options for the account type.

# Remove an account

You can remove accounts from your device.

1. From Settings, tap **Accounts and backup** > **Accounts** > **[Account type]**.
2. Tap the account and then tap **Remove account**.

# Users

Share this tablet with multiple people by creating User accounts.

Users have their own space, which they can customize with their own apps, wallpaper, and settings. Users can also adjust tablet settings that affect everyone, such as Wi-Fi.

1. From Settings, tap **Accounts and backup** > **Users**.
2. Tap **Add user or profile** and follow the prompts to set up a new user or profile.

**TIP** Restricted profiles allow only limited access to apps and content.

## Switch User Profiles

To access the device with a different user profile:

- From a Lock screen, tap **Manage users** and tap a user or profile from the list.

## Delete a User or Profile

1. From Settings, tap **Accounts and backup** > **Users**.
   - For a restricted account, tap **Settings** next to the user profile.
2. Tap **Delete**, and then confirm when prompted.

NOTE Only the device owner can delete other users or profiles. Deleting a user's profile removes the user account from the device entirely. This includes the user's Google Account, Samsung account, and any other local accounts associated with the user.

# Backup and restore

You can configure your device to back up data to your personal accounts.

## Google Account

You can enable backup of your information to your Google Account.

- From Settings, tap **Accounts and backup** > **Backup and restore** for options:
  - **Back up my data**: Enable back up of application data, Wi-Fi passwords, and other settings to Google servers.
  - **Backup account**: Select a Google Account to be used as your backup account.
  - **Automatic restore**: Enable automatic restoration of settings from Google servers.

## External storage transfer

You can back up your data to a USB storage device, or restore backup data using Smart Switch. For more information, see **Transfer data from an old device** on page 10.

- From Settings, tap **Accounts and backup** > **Backup and restore** > **External storage transfer**.

# Google settings

You can configure your device's Google settings. Available options depend on your Google Account.

- From Settings, tap **Google**, and select an option to customize.

# Accessibility

There are accessibility settings for people who need help seeing, hearing, or otherwise operating their device. Accessibility services are special features that make using the device easier for everyone. For more information about Accessibility for Samsung products, please contact us at **accessibility@sea.samsung.com**.

## Screen Reader

Use special controls and settings that let you navigate without needing to see the screen.

- From Settings, tap **Accessibility** > **Screen reader** and tap an option:
  - **Voice assistant**: Receive spoken feedback when using your device, such as what you touch, select, or activate.
  - **Tutorial**: Lean how to use Voice assistant.
  - **Settings**: Configure Voice assistant to better assist you.

## Visibility enhancements

You can configure Accessibility features to assist with visual aspects of your device.

### Colors and clarity

You can adjust the colors and contrast of text and other screen elements for easier viewing.

- From Settings, tap **Accessibility** > **Visibility enhancements** and tap an option:
  - **High contrast fonts**: Adjust the color and outline of fonts to increase the contrast with the background.
  - **High contrast keyboard**: Adjust the size of the Samsung keyboard and change its colors to increase the contrast between the keys and the background.
  - **Show button shapes**: Show buttons with shaded backgrounds to make them stand out better against the wallpaper.
  - **Negative colors**: Reverse the display of colors from white text on a black background to black text on a white background.

- **Color adjustment**: Adjust the color of the screen if you find it difficult to see some colors.
- **Color lens**: Adjust the screen colors if you have difficulty reading the text.
- **Remove animations**: Remove certain screen effects if you are sensitive to motion.

### Size and zoom

You can increase the size of supported screen elements and create shortcuts for accessibility features on your device.

◌ From Settings, tap **Accessibility** > **Visibility enhancements** and tap an option:

- **Magnifier window**: Magnify content shown on the screen.
- **Magnification**: Use exaggerated gestures such as triple-tapping, double pinching, and dragging two fingers across the screen.
- **Large mouse/touchpad pointer**: Use a large pointer for a connected mouse or touchpad (accessories not included).
- **Font size and style**: Configure screen fonts.
- **Screen zoom**: Configure the screen zoom level.

## Hearing enhancements

You can configure Accessibility features to assist with audial aspects of the device.

### Sounds

You can adjust audio quality when using hearing aids or earphones.

◌ From Settings, tap **Accessibility** > **Hearing enhancements** and tap an option:

- **Sound detectors**: Receive alerts when the device detects a baby crying or a doorbell.
- **Mute all sounds**: Turn off all notifications and audio for privacy.
- **Left/right sound balance**: Use the slider to adjust the left and right balance when listening to audio in stereo.
- **Mono audio**: Switch audio from stereo to mono when using one earphone.

### Text display

You can watch closed captions when viewing multimedia.

- From Settings, tap **Accessibility** > **Hearing enhancements** and tap an option:
  - **Samsung subtitles (CC)**: Use Samsung subtitles with multimedia files when available.
  - **Google subtitles (CC)**: Use Google subtitles with multimedia files when available.

## Interaction and dexterity

You can configure Accessibility features to assist with limited dexterity when interacting with your device.

### Alternate input

You can control your device using different kinds of inputs and controls.

- From Settings, tap **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Universal switch**: Control your device with your customized switches.
  - **Assistant menu**: Improve device accessibility for users with reduced dexterity.
  - **Click after pointer stops**: Automatically click on an item after the pointer stops over it.

### Interactions

You can simplify the motions needed to respond to notifications and alarms.

- From Settings, tap **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Interaction control**: Customize areas of screen interactions, hardkeys, and the keyboard.

### Touch settings

You can adjust your screen to be less sensitive to taps and touches.

- From Settings, tap **Accessibility** > **Interaction and dexterity** and tap an option:
  - **Touch and hold delay**: Select a time interval for this action.
  - **Tap duration**: Set how long an interaction must be held to be recognized as a tap.
  - **Ignore repeated touches**: Set a time duration in which to ignore repeated touches.

## Advanced settings

You can customize additional accessibility features and services for your device.

**TIP** Additional accessibility apps may be downloaded from the Google Play store.

### Direct access

- From Settings, tap **Accessibility** > **Advanced settings** and tap an option:
  - **Power and Volume up keys**: Configure selected Accessibility settings to open by quickly pressing the Power and Volume up keys at the same time.
  - **Volume up and down keys**: Configure selected services to turn on when you press and hold the Volume up and Volume down keys for three seconds.

### Notifications

- From Settings, tap **Accessibility** > **Advanced settings** and tap an option:
  - **Flash notification**: Flash either the camera light or the screen when you receive notifications or when alarms sound.
  - **Notification reminders**: Set periodic reminders for any unread notifications.

## Installed services

You can install additional assistance services for your device.

- From Settings, tap **Accessibility** > **Installed services**.

**NOTE** Additional accessibility services are listed and configured here after they are installed.

# Other settings

Configure features on your device that make it easier to use.

## Samsung DeX

Use a full desktop interface on your tablet. You can use larger screens with an HDMI cable. The tablet automatically enters DeX mode when a POGO keyboard is attached (sold separately).

1. From Settings, tap **Advanced features** > **Samsung DeX**.
2. Tap to enable the feature and follow the prompts.

## Daily Board

View a slideshow of your photos when your tablet is charging.

1. From Settings, tap **Advanced features** > **Daily Board**.
2. Tap to enable **Daily Board**.
3. Choose one of the following options:
   - **Slideshow**: Enable a button that launches a slideshow of images from Gallery.
   - **Time, weather, and calendar**: Display the current time, current weather, and a calendar.
   - **Auto start**: Start the slideshow automatically when the device is put into charging mode.
   - **Turn off as scheduled**: Set a schedule time to turn the device off.
     - **Set time**: Select a turn off time.
   - **About Daily Board**: View the app version and other information.

## Manage game features

Automatically arrange all your games in one place. For more information on Game Launcher, visit **samsung.com/us/support/owners/app/game-launcher**.

- From Settings, tap **Advanced features** > **Game Launcher**.

## About tablet

View information about your device, including current status, legal information, hardware and software versions, and more.

1. From Settings, tap **About tablet**, and then view your model number, serial number, and IMEI information.
2. Tap additional items to view more information about your device.

TIP You can view your device's FCC ID from Settings > About tablet > Status.

# Learn more

## Videos

samsung.com/us/support/videos

## Smart Simulator

samsungsimulator.com

## Tips

samsung.com/us/support/tips

## Samsung Care

samsung.com/us/support

## Talk to an agent

Contact us on **Facebook Messenger**

Find us on **Facebook**

Follow us on **Twitter**

# Legal information

READ THIS INFORMATION BEFORE USING YOUR MOBILE DEVICE.

Arbitration Agreement - This Product is subject to a binding arbitration agreement between you and SAMSUNG ELECTRONICS AMERICA, INC. (“Samsung”). You can opt out of the agreement within 30 calendar days of the first consumer purchase by emailing **optout@sea.samsung.com** or calling 1-800-SAMSUNG (726-7864) and providing the applicable information. For complete terms and conditions that bind you and Samsung, refer to the “Arbitration Agreement” section of the Terms & Conditions, included with the Product.

Find legal information online

The full Arbitration Agreement, Standard Limited Warranty, End User License Agreement (EULA), and Health & Safety Information for your device are available online.

Arbitration Agreement, Standard Limited Warranty, and Health & Safety Information:

Phone:

- English: samsung.com/us/Legal/Phone-HSGuide
- Spanish: samsung.com/us/Legal/Phone-HSGuide-SP

Tablet:

- English: samsung.com/us/Legal/Tablet-HSGuide
- Spanish: samsung.com/us/Legal/Tablet-HSGuide-SP

End User License Agreement:

- English: samsung.com/us/Legal/SamsungLegal-EULA4
- Spanish: samsung.com/us/Legal/SamsungLegal-EULA4/#SPANISH

### Find legal information on the mobile device

The full Arbitration Agreement, Standard Limited Warranty, End User License Agreement (EULA) and Health & Safety Information are also available on the device, in the Samsung legal section of Settings. The location depends on the device, and is usually in the “About device” or “About phone” section, for example:

- **Settings** > **About phone** or **About device** or **About tablet** > **Legal information** > **Samsung legal**
- Or, use the Search feature to search for “Legal”.

# Intellectual property

All Intellectual Property, as defined below, owned by or which is otherwise the property of Samsung or its respective suppliers relating to the SAMSUNG mobile device, including but not limited to, accessories, parts, or software relating thereto (the “mobile device”), is proprietary to Samsung and protected under federal laws, state laws, and international treaty provisions. Intellectual Property includes, but is not limited to, inventions (patentable or unpatentable), patents, trade secrets, copyrights, software, computer programs, and related documentation and other works of authorship.

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# Open source software

Some software components of this product, including but not limited to ‘PowerTOP’ and ‘e2fsprogs’, incorporate source code covered under GNU General Public License (GPL), GNU Lesser General Public License (LGPL), OpenSSL License, BSD License and other open source licenses. To obtain the source code covered under the open source licenses, please visit: **opensource.samsung.com**

# Disclaimer of warranties; exclusion of liability

The information below explains that a user accepts this Product as sold, including the hardware and software components as created and packaged for sale. If the user changes these parameters through a unique modification, Samsung will not be held responsible for damages or issues that result from these end-user changes.

Except as set forth in the Standard Limited Warranty that accompanies the Product, the purchaser takes the product “as is”, and Samsung makes no express or implied warranty of any kind whatsoever with respect to the Product, including but not limited to the:

- merchantability of the Product or its fitness for any particular purpose or use;
- design, condition or quality of the Product;
- performance of the Product;
- workmanship of the Product or the components contained therein; or
- compliance of the Product with the requirements of any law, rule, specification or contract pertaining thereto.

Nothing contained in the User Manual or any other document shall be construed to create an express or implied warranty of any kind whatsoever with respect to the Product. Neither Samsung nor the wireless carrier are responsible for, and the Standard Limited Warranty does not apply to, any damage or injury arising from disassembly or repairs by persons not authorized or approved by Samsung to service this Product. In addition, Samsung shall not be liable for any damages of any kind resulting from the purchase or use of the Product or arising from the breach of the express warranty, including incidental, special or consequential damages, or loss of anticipated profits or benefits.

# Modification of software

Samsung is not liable for performance issues or incompatibilities caused by your editing of registry settings, or your modification of Operating System (OS) software.

Using custom OS software may cause your device and applications to work improperly. Your carrier may not permit users to download certain software, such as custom OS.

# Samsung Knox

Samsung Knox is Samsung's security platform and is a mark for a Samsung device tested for security with enterprise use in mind. Additional licensing fee may be required. For more information about Knox, please refer to: **samsung.com/us/knox**.

# Restricting children's access to your mobile device

Your device is not a toy. Do not allow children to play with it because they could hurt themselves and others, or damage the device, or make calls that increase your device bill. Keep the device and all its parts and accessories out of the reach of small children.

# Samsung Electronics America, Inc.

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Ridgefield Park
New Jersey 07660

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Internet: **samsung.com**

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Some multimedia (audio/video) files contain Digital Rights Management (DRM) technology to verify you have the right to use the files. Preloaded apps on your device may not be compatible with DRM-protected files.

Screen images are simulated. Appearance of device may vary.

The actual available capacity of the internal memory is less than the specified capacity because the operating system and default applications occupy part of the memory. The available capacity may change when you upgrade the device.

Please check with your service provider to verify qualifying services/features.

# Health and safety information

## Exposure to Radio Frequency (RF) Signals

### Certification Information (SAR)

Your wireless device is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile devices employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless devices to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model device is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model device are performed in positions and locations as required by the FCC.

Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

SAR information on this and other model devices can be viewed on-line at www.fcc.gov/oet/fccid. This site uses the device FCC ID number A3LSMT867V.

Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular device, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular device. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

# Consumer Information on Wireless devices

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless devices. The FDA publication includes the following information:

### What kinds of devices are the subject of this update?

The term wireless device refers here to hand-held wireless devices with built-in antennas, often called "cell," "mobile," or "PCS" devices. These types of wireless devices can expose the user to measurable radio frequency energy (RF) because of the short distance between the device and the user¡¯s head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the device is located at greater distances from the user, the exposure to RF is drastically lower because a person¡¯s RF exposure decreases rapidly with increasing distance from the source. The so-called ¡° cordless devices,¡± which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC¡¯s compliance limits.

### Do wireless devices pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless devices. There is no proof, however, that wireless devices are absolutely safe. Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

### What is FDA's role concerning the safety of wireless devices?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless devices before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless devices are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless devices to notify users of the health hazard and to repair, replace or recall the devices so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless device industry to take a number of steps, including the following:

•”Support needed research into possible biological effects of RF of the type emitted by wireless devices;

•”Design wireless devices in a way that minimizes any RF exposure to the user that is not necessary for device function; and

•”Cooperate in providing users of wireless devices with the best possible information on possible effects of wireless device use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

•”National Institute for Occupational Safety and Health

•”Environmental Protection Agency

•”Federal Communications Commission

•”Occupational Safety and Health Administration

•”National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless devices with the Federal Communications Commission (FCC). All devices that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless devices.

FCC also regulates the base stations that the wireless device networks rely upon. While these base stations operate at higher power than do the wireless devices themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless devices. Base stations are thus not the primary subject of the safety questions discussed in this document.

## What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless devices have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless devices, so we don¡¯t know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless devices and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless devices RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of device use in these studies was around three years.

### What research is needed to decide whether RF exposure from wireless devices poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless devices would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years¡¯ follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless devices. Many factors affect this measurement, such as the angle at which the device is held, or which model of device is used.

### What is FDA doing to find out more about the possible health effects of wireless device RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless device safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless device users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

## What steps can I take to reduce my exposure to radio frequency energy from my wireless device?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless device will reduce RF exposure.

•"If you must conduct extended conversations by wireless device every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless device away from your body or use a wireless device connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless devices are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless device use.

## What about children using wireless devices?

The scientific evidence does not show a danger to users of wireless devices, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless devices. Reducing the time of wireless device use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless devices at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless device causes brain tumors or other ill effects. Their recommendation to limit wireless device use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

## Do hands-free kits for wireless devices reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless devices, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless devices for convenience and comfort. These systems reduce the absorption of RF energy in the head because the device, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the device is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless devices marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

## Do wireless device accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless devices, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special device cases, while others involve nothing more than a metallic accessory attached to the device. Studies have shown that these products generally do not work as advertised. Unlike ¡°hand-free¡± kits, these so-called ¡°shields¡± may interfere with proper operation of the device. The device may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless device users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

## What about wireless device interference with medical equipment?

Radio frequency energy (RF) from wireless devices can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless device EMI. FDA has tested wireless devices and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless devices so that no interference occurs when a person uses a compatible device and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless devices for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program : ttp://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA) : http://www.epa.gov/radiation/
- Occupational Safety and Health Administration's (OSHA) : ttp://www.osha.gov/SLTC/radiofrequencyradiation/index.html
- National institute for Occupational Safety and Health (NIOSH) : http://www.cdc.gov/niosh/emfpg.html
- World health Organization (WHO): http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- National Radiation Protection Board (UK): http://www.nrpb.org.uk
- Updated 4/3/2002: US food and Drug Administration http://www.fda.gov/cellphones

# Road Safety

Your wireless device gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless devices, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless device behind the wheel of a car, practice good common sense and remember the following tips:

1 Get to know your wireless device and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.

2 When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless device with one of the many hands free accessories available today.

3 Position your wireless device within easy reach. Be able to access your wireless device without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.

4 Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

5 Do not take notes or look up device numbers while driving. Jotting down a ¡°to do¡± list or flipping through your address book takes attention away from your primary responsibility, driving safely.

6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7 Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.

8 Use your wireless device to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless device!

9 Use your wireless device to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

10 Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your device safely when driving."

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

# Operating Environment

Remember to follow any special regulations in force in any area and always switch your device off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the device or any accessory to another device, read its user¡¯s guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

# Using Your device Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless device. Consult the manufacturer to discuss alternatives.

### Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless device and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research. If you have any reason to suspect that interference is taking place, switch off your device immediately.

### Persons with pacemakers:

- should always keep the device more than 15 cm (6 inches) from their pacemaker when the device is switched on.
- should not carry the device in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your device off immediately.

### Hearing Aids

Some digital wireless devices may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

### Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your device off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### Posted Facilities

Switch your device off in any facility where posted notices require you to do so.

### Statics Devices

When camera is in operation, Your device should not be near devices that produces static field.

## Potentially Explosive Environments

Switch your device off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the device off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include the areas below decks on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

# Emergency Calls

This device, like any wireless device, operates using radio signals, wireless and landline networks as well as user programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless device for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the device must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless device networks or when certain network services and/or device features are in use. Check with local service providers.

To make an emergency call:

1 If the device is not on, switch it on.

2 Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.

3 Press [ ].

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your device may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

### Restricting Children¡¯s access to your device

Your device is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the device or make calls that increase your device bill.

# FCC Notice and Cautions

### FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and,f not installed and used in accordance with the instructions, may cause harmful interference to radio communications.However, there is no guarantee that interference will not occur in a particular installation.If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

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

The device may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the device if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Battery march Park, Quincy, MA 02269, Attn: Publication Sales Division.

### Cautions

Changes or modifications made in the radio device, not expressly approved by Samsung, will void the user¡¯s authority to operate the equipment.

Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the device warranty if said accessories cause damage or a defect to the device.

Although your device is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

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# Other Important Safety Information

- Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless device equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the device, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force.Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.

- Switch off your device before boarding an aircraft. It is dangerous and illegal to use wireless devices in an aircraft because they can interfere with the operation of the aircraft.

- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

# Product Performance

### Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your device informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you¡¯re inside a building, being near a window may give you better reception.

### Understanding the Power Save Feature

If your device is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your device is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your device returns to standby mode.

### Maintaining Your device's Peak Performance

For the best care of your device, only authorized personnel should service your device and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your device properly and maintaining safe, satisfactory service.

- Hold the device with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the device¡¯s antenna.
- Don¡¯t use the device if the antenna is damaged.
- Speak directly into the device's receiver.
- Avoid exposing your device and accessories to rain or liquid spills. If your device does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

# Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

# Battery Standby and Talk Time

Standby and talk times will vary depending on device usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

# Battery Precautions

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the device near the network¡¯s base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A device with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0℃ (32 ℉).
- Do not short-circuit the battery. Accidental short- circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

# Care and Maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep your device and all its parts and accessories out of the reach of small children and pets. They may accidentally damage these things or choke on small parts.
- Keep the device dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the device with a wet hand. Doing so may cause an electric shock to you or damage to the device.
- Do not use or store the device in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device warms up to its normal operating temperature, moisture can form inside the device, which may damage the device's electronic circuit boards.
- Do not drop, knock or shake the device. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the device. Paint can clog the device¡¯s moving parts and prevent proper operation.
- Do not put the device in or on heating devices, such as a microwave oven, a stove or a radiator. The device may explode when overheated.
- When the device or battery gets wet, the label indicating water damage inside the device changes color. In this case, device repairs are no longer guaranteed by the manufacturer¡¯s warranty, even if the warranty for your device has not expired.
- If your device has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the device and violate regulations governing radio devices.
- If the device, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

* Some of the contents of this manual may differ from your device, depending on the software installed or your service provider.

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http://www.samsungmobile.com