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SM-W750V

A N D R O I D S M A R T P H O N E

User Manual

**Please read this manual before operating your
phone and keep it for future reference.**

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Section 1: Getting Started

Understanding this User Manual

The sections of this manual generally follow the features of your device. A robust index for features begins on page 263.

Also included is important safety information beginning on page 226, that you should know before using your device.

This manual gives navigation instructions according to the default display settings. If you select other settings, navigation steps may be different.

Unless otherwise specified, all instructions in this manual assume that you are starting from the Home screen. To get to the Home screen, you may need to unlock the device. For more information, see “*Securing Your Device*” on page 15.

Note: Instructions in this manual are based on default settings, and may vary from your device, depending on the software version on your device, and any changes to the device’s Settings.

Unless stated otherwise, instructions in this User Manual start with the device unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your device and any changes to the device’s Settings.

Special Text


In this manual, you'll find text that is set apart from the rest. These are intended to point out important information, share quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Notes:** Presents alternative options for the current feature or menu.
- **Tips:** Provides quick or innovative methods, or useful shortcuts.
- **Important:** Points out important information about the current feature that could affect performance.
- **Warning:** Brings to your attention important information to prevent loss of data or functionality, or even prevent damage to your device.

Text Conventions

This manual provides condensed information about how to use your device. To make this possible, the following text conventions are used to represent frequently-used steps:

- Arrows are used to represent the sequence of selecting successive options in procedures. For example:

"From the Home screen, touch  **Apps** →  **Settings** → **Wi-Fi**."



Many settings use an On/Off switch. Touch the On/Off switch to turn a setting On or Off. This graphic is used to represent the On/Off switch.

Turning the Device On and Off

Turning the Device On

- Press and hold the  **Power/Lock Key** until the device vibrates and starts up.

Turning the Device Off

1. Press and hold the  **Power/Lock Key** until the device vibrates and the Device Options menu displays.
2. At the prompt, tap **Power off**.

Your Google Account

Your new device uses your Google account to fully utilize its Android features, including Gmail, Google Talk and the Play Store. When you turn on your device for the first time, set up a connection with your existing Google account, or create a new Google account.

To create a Google account, or set up your Google account on your device, use Accounts and sync settings (see “Accounts” on page 212).

Your Samsung Account




Create a Samsung account, for access to Samsung apps on your device, including Media Hub, Music Hub, and AllShare Play. For more information, see “Accounts” on page 212.

Setup Wizard

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




Follow the prompts to choose a default language, set up accounts, choose location services, and learn more about your device.

You can also use the Setup Wizard to quickly configure your device at any time.




- From any unlocked screen, press the  **Home Key**, then touch  **Apps** →  **Setup Wizard**.

Help

Get information about using your device, including videos, useful tips, and other information.

- From any unlocked screen, press the  **Home Key**, then touch  **Apps** →  **Help**.

Your Phone Number

- From any unlocked screen, press the  **Home Key**, then touch  **Apps** →  **Settings** → **About phone** → **Status**.

Voice Mail

All unanswered calls to your device are sent to voicemail, even if your device is turned off, so you'll want to set up your voicemail and personal greeting as soon as you activate your device.


For more information, see “*Voicemail*” on page 78.

TTY Mode

Your device is TTY-compatible, allowing you to connect a TTY device to the device's headset jack. Before you can use your device with a TTY device, you'll need to enable TTY Mode.

For more information about enabling TTY mode, see “*Call Settings*” on page 62.

Roaming


When you travel outside your home network's coverage area, your device can use roaming to acquire service on other compatible digital networks. When roaming, the  **Roaming** icon displays in the Status bar.

Tip: You can set your device's roaming behavior. For more information, see *"Mobile networks"* on page 177.

During roaming, some services may not be available. Depending on your coverage area and service plan, extra charges may apply when making or receiving calls, connecting to the Internet, or using data services. Contact Verizon Wireless for more information about your coverage area and service plan.

Task Manager

Your device can run apps simultaneously, with some apps running in the background. Use Task Manager to see which apps are running on your device, and to end running apps to extend battery life. You can also uninstall apps from your device and check memory usage.

1. From any unlocked screen, press and hold the  **Home Key**, then select **Task manager**.
2. Touch the **Active applications** tab to view apps running on your device. Touch **End**, or **End all** to close apps.
3. Touch the **Downloaded** tab to view information about apps you've installed on your device. Touch **Uninstall** to remove an app from your device.
4. Touch the **RAM** tab to display the amount of RAM (Random Access Memory) in use. Touch **Clear memory** to clear processes to increase available RAM.
5. Touch the **Storage** tab for internal system storage and SD card memory statistics.
6. Touch the **Help** tab to view information about managing RAM, and tips for extending battery life.

Tip: Touch and drag your finger on the tabs to scroll the tabs.

Securing Your Device

Use your device's screen lock features to secure your device.

Note: Unless stated otherwise, instructions in this User Manual start with the device unlocked, at the Home screen.

To set a personal screen lock, use the Screen lock option under Security settings. For more information, see “Screen lock” on page 196.

For other settings related to securing your device, see “Security” on page 201.

Locking the Device

- By default, the device locks automatically when the screen times out.
 - or –
 - Press the  **Power/Lock Key**.
-

Tip: When the device is locked, the Emergency call feature is available on the lock screen, to allow you to make emergency calls even while the device is locked.

Unlocking the Device

Unlock the device using one of the default unlock screens, or use Screen lock options for increased security.

- Press the  **Power/Lock Key**, then touch and drag your finger across the screen.
-

Tip: Special notification icons display for missed calls or new messages. Drag a missed call or message icon to view the message or call log.

Section 2: Understanding Your Device

Features

- Touch screen with virtual (on-screen) QWERTY keyboard
- Brilliant 4.99XX??” HD Super AMOLED® screen (1920 x 1080)
- 1.9XX?? gigahertz quad-core processor
- Delivering data speeds faster than the current 3G network technology by using 4G LTE and High Speed Packet Access Plus (HSPA+).
- Android 4.3, Jelly Bean Platform
- USB 3.0 connector for fast transfer speeds
- Smart Switch™ compliant. For more information, see www.samsungsmarts witch.com
- Support for Air View® and Air Gestures®.
- S Pen functionality
- Wi-Fi ® Capability
- WatchON® – Rich TV experience with Infrared (IR) remote
- Apps available to download from the Google Play™ Store and Samsung Apps
- Access Movies, TV Shows, Music, Games, and Books with Samsung Hub™
- Samsung Link™ to share your media content across connected devices. Cloud connectivity is achieved using an external Web storage service
- Compliant with AllShare Cast Hub®
- 13 Megapixel Camera and Camcorder with autofocus and digital zoom XX??
- 2 Megapixel Front Facing camera for Video Chat XX??
- Share Shot picture sharing functionality, Camera sharing over multi-connect Wi-Fi Direct connection
- S-Beam file transfer technology
- Bluetooth enabled
- NFC-compatible
- Full Integration of Google Mobile™ Services (Gmail, YouTube, Google Maps, Google Voice Search)
- Multiple Messaging Options: Text/Picture/Video Messaging and Google Hangouts™
- Corporate and Personal Email
- Music Player with multitasking features

Easy Clip

Instantly outline and crop images on the screen, in any shape, to share or paste. You can edit the cropped content, or personalize it with your own handwriting.

To use Easy Clip:

1. Press and hold the S Pen button, then draw around the image you want to clip, making sure to close the shape.
2. Tap the app you want to paste the image into, or if you do nothing, the image is pasted to Clipboard.

Air View

Hover S Pen over the screen to preview content, or view information about an item on the screen. For example:

- Hover over an email in a list to preview the message before opening it.
- Hover over a photo album to preview the contents, or see a picture enlarged.
- Hover over the timeline during video playback to preview and navigate to specific scenes.
- In S Planner, hover over dates and events to see details
- Hover over an icon or screen button to view the item's title

For more information about Air View, and to configure settings, touch  **Apps** →  **Settings** → **S Pen** → **Air View**, or see “Air view” on page 216.

Quick Command

Multitask like never before. Launch Quick Command pad from any screen, to hand-write tasks. Use S Pen to draw a Quick Command to launch a feature, or draw a Quick Command followed by a keyword to personalize the command. For example, draw a question mark “?” to search the Internet, or draw a question mark followed by a search term to search on the term.

For more information about Quick Command, and to configure settings, touch  **Apps** →  **Settings** → **S Pen** → **Quick Command settings**, or see “Quick Command settings” on page 216.

To launch Quick Command:

- Press and hold the S Pen button and swipe upwards on the screen.

Idea Sketch

Express your ideas with an image. Add illustrations by hand-writing keywords on the Idea Sketch pad.

To use Idea Sketch:





1. From the Home screen, touch  **Apps** →  **S Note**.
2. From the toolbar, select the **Insert** tool, then choose **Idea Sketch** from the menu.
3. Write a search term for something you want to draw or insert into your S Note. Or, select **List** and choose a category.
4. S Note displays images matching your search term. Select an image to insert it into your S Note. You can edit the image, or draw on it, and changes are saved in the note.

Photo Notes

Hand-write a note on the back of pictures to add detail to your memories.

To add a Photo Note:

1. From the Home screen, touch  **Apps** →  **Gallery**.
2. Select a picture, then select **Menu** → **Draw on image**.
3. Use S Pen to write a note on the back of the picture, then select **Done** to save the note with the picture.

Note: Photo notes are saved with the picture on your device, but are not transferred when you share the picture.

Popup Note

Multitask with Popup Note - open an S Note instantly in a popup window to jot down a quick note during a meeting, or write down information from another area of the screen.


To use Popup Note:

1. From any screen, press and hold the S Pen button and double-tap on the screen.
2. Use S Pen to write your note, then save it for later. You can move the popup window around the screen.

Popup Video

Multitask with Popup Video - transform your video player into a popup window floating on the screen. The video will continue to play, and the popup window can be resized or moved anywhere on the screen.

To use Popup Video:

- While watching a video, touch the  **Popup Video** icon in the lower right corner of the screen.

Popup Browser



Multitask with Popup Browser - Launch a new, floating browser window by selecting a web link from any application.

To launch Popup Browser:

- In any app, touch a web link, then choose **Popup Browser** from the menu.

Other S Pen gestures

You can perform other functions with S Pen, for example:

- **Go back:** Press and hold the S Pen button, then draw  on the screen.
- **Open menu:** Press and hold the S Pen button, then draw  on the screen.
- **Screen capture:** Press and hold the S Pen button, then touch and hold S Pen on the screen.
- **Select text:** Press and hold the S Pen button, then touch and drag S Pen over the text to select

Extended Home Screen

The Home screen consists of the Home panel, plus panels that extend beyond the display width to provide more space for adding shortcuts, widgets and folders.

Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.


Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add App Shortcuts:** For more information, see “Shortcuts” on page 37.
- **Add Widgets:** For more information, see “Widgets” on page 37.
- **Add Folders:** For more information, see “Folders” on page 38.
- **Change the Wallpaper:** For more information, see “Wallpaper” on page 38.
- **Display settings:** For more information, see “Display” on page 187.

Adding and removing Home screen panels

Your device comes with 6 Home screen panels. You can customize the Home screen to include up to the seven default panels.

1. From the Home screen, touch  **Menu** → **Edit page**.
2. Slide your finger across the screen to scroll the panels, and use these controls to configure panels:



Remove: Touch and hold on a panel, then drag it to **Remove**.



Add: Touch a previously-removed panel to add it, up to the default total of seven.



Set as Home: The panel set as Home will display when you press the  **Home Key**.

Tip: You can also “pinch” the Home screen to display Edit page options. For more information, refer to “Pinch” on page 28.

Navigation

Navigate your device's features using the command keys and the touch screen.

Warning! Please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty. For more information, see “*Warranty Information*” on page 250.

Context-sensitive Menus

While using your device, context-sensitive menus offer options for the feature or screen.

To access context-sensitive menus:

- Touch  **Menu**.
- Touch and hold on an item.

Finger Gestures

Touch

Touch items to select or launch them. For example:

- Touch the onscreen keyboard to enter characters or text.
- Touch an item to select it.
- Touch an app's icon to launch the application.

Touch and Hold

Activate items by a touch and hold gesture. For example:

- Touch and hold a widget on the Home screen to move it.
- Touch and hold on a field to display a pop-up menu of options.

Swipe

Swipe your finger across the screen. For example:

- Unlocking the screen
- Scrolling the Home screen or a menu
- Combine touch and hold with swipe to drag an item.

Pinch

Using two fingers, make a pinch motion on the screen. For example:

- Pinch in to zoom in on pictures or screens.
- Pinch out to zoom out on pictures or screens.

Hand Gestures

Your device recognizes motion, to allow you to navigate and access features by moving the device in specific gestures.

To use gestures, enable the Motion settings. For more information, see “*Motion*” on page 213.

Pick Up or Turn Over

Lift the device, or place the device screen-down, on a horizontal surface, such as a table.

- **Direct call:** When this setting is On, you can lift the device to your ear to call a displayed contact in Messaging, Contacts, or Recent calls to dial the contact’s device number.
- **Smart alert:** When this setting is On, the device will automatically notify you to missed calls and alerts that occurred while the device was stationary.
- **Turn over to mute/pause:** When this setting is On, turning the device screen-down automatically mutes incoming call ringtones and alerts sounds.

Tap to top

Tap on the top of the device twice, quickly.

- **Tap to top:** When this setting is On, a double tap on the top of the device takes you to the top of a list.

Tilt

Touch and hold with your thumbs on the screen, then tilt the device forward and back to zoom in or out.

- **Tilt to zoom:** When this setting is On, tilting the device while in Gallery or Internet causes the screen to zoom in or out.

Pan

Touch and hold on the screen, then move the device in a side-to-side motion.

- **Pan to move icon:** When this setting is On, moving the device in a panning motion (side-to-side) moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images:** When this setting is On, moving the device in a panning motion while viewing an image moves focus around in the image.

Shake

Shake your device to scan for nearby devices, such as Bluetooth or Kies air devices, and more, for connecting to your device for sharing files.

- **Shake to update:** When this setting is On, shaking the device starts a scan for nearby devices for sharing.

Palm

Use your hand to swipe across the screen, or cover the screen.

- **Palm swipe to capture:** When this setting is On, swiping the screen with the side of your hand (left to right, or right to left) captures a screen shot.
- **Palm touch to mute/pause:** When this setting is On, covering the screen with your hand mutes or pauses media playback.

Multi Window

Multi Window allows you to use multiple apps on the same screen, in multiple, resizable windows.

Enabling Multi Window

Enable Multi window on the Notifications screen.

1. Sweep your finger down from the top of the screen to display Notifications.
2. Scroll the settings at the top of Notifications, then touch **Multi window** to enable it.

Displaying Multi Window

When Multi window is enabled, the tab appears on the left side of the screen by default. You can show or hide the tab.

- Touch and hold the  **Back Key**.

Moving the Multi Window Tab

When Multi window is enabled, its tab displays on the edge of the screen where it's docked. You can move the Multi window tab up or down on the edge of the screen.

- Touch and hold on the tab, then drag it up or down along the edge of the screen.

Moving Multi Window

By default, Multi window is docked on the left side of the screen. You can dock the Multi window at any edge of the screen (top, bottom, or either side).

- Touch the tab to open Multi Window (the tab turns gray), then drag Multi Window to another edge of the screen.

Using Multi Window to Run Multiple Apps

You can launch apps from Multi window, or drag an app to the screen to run multiple apps at the same time.

The apps display together on a split screen. You can switch between the apps, or adjust the size of their display on the screen.

Launching multiple apps

When you drag an app from Multi Window on top of an open app, both apps display in a split window.

1. While using one app, touch the tab to display Multi Window, then touch and drag an app to the screen.
2. As you drag the app over the screen, a blue screen displays. Release the app when the blue screen displays where you want to place the app.


Adjusting the size of app windows

You can adjust the size of the two apps on the screen.

Touch and drag the border between the windows.


Switching Multi window positions and making an app full screen

You can switch the position of the app windows from top to bottom.

- Touch the border between the windows, then touch  **Switch**.

Making an app full screen

You can change from the split window display to full screen.

- Touch the border between the windows, then touch  **Full screen**.

Notifications

Notifications shows information about connections, alerts and other items.

1. Touch and drag downward from the top of the screen to display notifications.
2. Touch an item to open the item, or to launch the related app or feature.

World Clock

While displaying Notifications, touch the time in the Status bar to display a World clock. Add cities to the clock to display the time in different zones around the world.

Clearing Notifications

1. Sweep your finger downward from the top of the screen to display Notifications.
2. Touch a notification to clear it, or touch **Clear** to clear all notifications.

Settings

Use settings at the top of Notifications to control popular settings. Slide your finger right and left to see all the icons.

- **Bluetooth:** Turn Bluetooth On or Off. See *“Bluetooth”* on page 163
- **GPS:** Turn Standalone GPS services on or off. See *“Standalone GPS services”* on page 195
- **Sound:** Switch between your sound settings, Mute (all sounds silenced) and Vibrate (all sounds replaced by vibration).
- **Mobile data:** Activate or deactivate your device's access to mobile data service. See *“Mobile networks”* on page 177
- **Screen rotation:** Enable or disable the Auto rotation setting, to control whether the screen automatically updates when you rotate the device. See *“Auto-rotate screen”* on page 189
- **Airplane mode:** Turn Airplane mode On or Off. See *“Airplane mode”* on page 171
- **Power saving:** Enable or disable Power saving mode. See *“Power saving mode”* on page 192
- **Driving mode:** Enable or disable Driving mode, to have incoming caller ID and text messages read out. See *“Text-to-speech output”* on page 210

- **AllShare Cast:** Enable or disable AllShare Cast, for easy sharing with other devices.
- **Multi window:** Enable or disable the multi window feature. When enabled, touching and holding on the Back Key activates the multi window feature on the screen. Multi window gives you quick access to apps from a window on the right side of the screen, and you can drag an app from the multi window to run multiple apps on the same screen.

LED Indicator

The LED indicator, on the front of the device above the screen (see “Front” on page 17) animates or glows to show alerts or device status.

- | | |
|-------|---|
| Blue | <ul style="list-style-type: none">• Pulses in multi-color blue while the device is turning On or Off.• Blinks blue for a missed call, message or other notification. |
| Red | <ul style="list-style-type: none">• Glows red when the device is connected to a charger and charging.• Blinks red when the device is connected to a charger and there is a problem with charging.• Blinks red when battery power is low (device not connected to charger) |
| Green | <ul style="list-style-type: none">• Glows green when the device is connected to a charger and the battery is fully charged. |

Status Bar

The Status Bar shows network and battery status and other details, including these common icons.

Airplane Mode Active: All wireless communications are disabled. See “*Airplane mode*” on page 171

USB Connected: The device is connected to a computer using a USB cable. For more information about transferring data between your device and a computer, see “*Transferring Data*” on page 168.

Voice Call: A voice call is in progress.

Speakerphone: Speakerphone is enabled.

Missed Call: Displays when there is a missed call.

Mute: Voice or playback volume is muted.

Battery Level: Shown fully charged.

Battery Charging: Battery is charging.

Device Power Critical: Battery has very little power remaining. Charge immediately.

GPS E911 Only: E911 location is active (cannot be turned off). See “*E911*” on page 194

GPS Location Active: One or more GPS location services are active. See “*Location services*” on page 194

Missing SIM: No SIM is installed.

No Network: No wireless network is available.

3G connection: device is active on a 3G system. The arrows are colored when data is being transferred.

4G LTE Connection: device is active on a 4G LTE system. The arrows are colored when data is being transferred.

Signal Strength: Current signal strength. The greater the number of bars, the stronger the signal.

Signal Strength Roaming, Open: Current signal strength, when the device is roaming. The greater the number of bars, the stronger the signal.

Signal Strength Roaming, CDMA: Current signal strength, when the device is roaming on CDMA networks. The greater the number of bars, the stronger the signal.

Wi-Fi Active: Wi-Fi is active, and connected to a Wi-Fi network. The greater the number of rays, the stronger the signal. The arrows are colored when data is being transferred. For more information about configuring Wi-Fi, see “*Wi-Fi*” on page 158.

Wi-Fi Action Needed: Action needed to connect to Wi-Fi network. For more information about configuring Wi-Fi, see “*Wi-Fi*” on page 158.

New Message: You have new message(s).

New Voicemail: You have new voicemail. A number indicates the number of new messages.

New Email Message: You have new email.

Download Successful: A file was downloaded successfully.

Update Available: An update is available for an installed app.

Update Successful: An update was installed for an app.

Alarm: An alarm is set.

Silent mode: All sounds except media and alarms are silenced, and Vibrate is not active.

Vibrate: Vibrate Silent mode is active.

Music Playing: Music is playing, but the app is in the background. You can control playback from Notifications, or from Music player.

Music Paused: Music playback is paused. You can control playback from Notifications, or from Music player.

SD Card Ready: A memory card scan is underway, to prepare the card for use. For more information about using memory cards, see “*Memory Card*” on page 169.

SD Card Safe to Remove: A memory card was unmounted, and it is safe to uninstall it. For more information about using memory cards, see “*Memory Card*” on page 169.


SD Card Removed: A memory card was uninstalled. For more information about using memory cards, see “*Memory Card*” on page 169.

Bluetooth Active: Bluetooth is turned on. For more information, see “*Turning Bluetooth On or Off*” on page 163.



Bluetooth Paired: Your device is paired with another Bluetooth device. For more information, see “*Pairing with a Bluetooth Device*” on page 163.

Primary Shortcuts


Primary Shortcuts appear at the bottom of the display. You can edit the Primary Shortcuts, except for  **Apps**.

Editing the Primary Shortcuts

To add or remove shortcuts:

- Touch and hold a shortcut, then drag it from the Primary Shortcuts to the Home screen, or from the Home screen to the Primary Shortcuts.

To remove shortcuts:

- Touch and hold the shortcut until  **Remove** appears, then drag the shortcut to the **Remove** icon.

Widgets


Widgets are self-contained applications that you can place on the Home screen for quick access.

Adding Widgets to the Home screen


Adding widgets from the Home screen

1. Navigate to a Home screen panel, then touch and hold on the screen to display the **Home screen** menu.
2. Touch **Apps and widgets**.
3. Touch the **Widgets** tab, then touch and hold and drag it to the Home screen.

Adding Shortcuts from Widgets

1. Navigate to a Home screen panel.
2. Touch  **Apps**, then touch the **Widgets** tab.
3. Touch a widget, then follow the prompts to configure the widget and place it on the Home screen.

Removing Widgets

- Touch and hold the widget until  **Remove** appears, then drag the widget to the Remove icon.

Shortcuts


Use App shortcuts for quick access to applications from the Home screen. Your device comes with app shortcuts already placed on the Home screen, and you can add your favorites.

Adding Shortcuts to the Home Screen


Adding shortcuts from the Home screen

1. Navigate to a Home screen panel, then touch and hold on the screen to display the **Add to Home screen** menu.
2. Touch **Apps and widgets**.
3. Touch and hold an app to add it to the Home screen.

Adding Shortcuts from Apps

1. Navigate to a Home screen panel.
2. Touch  **Apps**.
3. Touch and hold an app to add it to the Home screen.

Removing Shortcuts

- Touch and hold the shortcut until  **Remove** appears, then drag the shortcut to the Remove icon.

Folders

Place folders on the Home screen to organize items.

Adding Folders

1. Navigate to a Home screen panel, then touch and hold on the screen to display the **Home screen** menu
2. Touch **Folder**. The folder displays on the Home screen. Touch the folder to name it.

Removing Folders

- Touch and hold the folder until  **Remove** appears, then drag the folder to the Remove icon.

Wallpaper

Choose a picture to display in the background of the Home screen. You can choose pre-loaded wallpaper images, or select a picture you've taken with Camera or downloaded.

1. From the Home screen, touch and hold on the screen to display the **Home screen** menu, then select **Set wallpaper**.
2. Choose **Home screen**, **Lock screen**, or **Home and lock screens**.
3. Choose a source:
 - **Gallery**: Choose a picture stored on your device or on an optional installed memory card. Touch a picture to select it, then use the crop tool to resize the picture, if desired. Touch **Done** to set the picture as wallpaper.
 - **Live wallpapers**: Choose from pre-loaded interactive moving wallpapers. Touch a wallpaper, then touch **Set wallpaper**.
 - **Wallpaper**: Choose from pre-loaded wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.

Note: You can also set Wallpaper in Settings. For more information, see “*Wallpaper*” on page 187.


Apps

Apps holds all applications installed on your device. Applications that you download and install are also added to Apps.

The Apps screen is like the Home screen, it consists of panels that extend beyond the display width to provide more space. Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

For more information about applications, see “Applications” on page 80.

You can place shortcuts to apps on the Home screen, for quick access to the app. For more information, see “Adding Shortcuts from Apps” on page 37.

1. From the Home screen, touch  **Apps**.
2. Slide your finger left or right to scroll the Apps screens.
3. Touch an icon to launch the application.

Entering Text

Your device uses a virtual QWERTY keyboard for text entry. Use the keyboard to enter letters, punctuation, numbers, and other characters into text entry fields or applications. Access the keyboard by touching any text entry field.

You can also use voice input to speak your inputs.

The virtual QWERTY keyboard displays at the bottom of the screen. By default, when you rotate the device, the screen orientation updates to display the keyboard at the bottom of the screen.

Text Input Methods

Your device offers three text input methods: Google voice typing, Samsung keyboard, and Swype.

You can set a default text entry method in Settings. For more information, see “Keyboards and input methods” on page 205.

To choose a text input method at any time:

- While entering text, touch and drag downward from the top of the screen to display Notifications, then touch **Choose input method**.



Using Samsung Keyboard

The Samsung keyboard is a custom virtual QWERTY keyboard, featuring optional predictive text. Input characters by tapping the on-screen keys with your finger, or use speech recognition.

You can enable predictive text, to have the Samsung keyboard match your key touches to common words and displays them. Select a word from the display to insert it into your text.

Configuring Samsung keyboard

Configure the Samsung keyboard to your preferences.

- For more information, see “*Samsung keyboard*” on page 206.
- While entering text, touch , then select  from the pop-up menu.


Entering Upper and Lower Case Letters

The default case is lower case (abc). Enter upper and lower case alphabet letters by touching the Shift key to toggle the case, before touching the letter key(s).

- Touch once to switch from abc to Abc mode
- Touch and hold to switch to ABC mode

Entering Symbols and Numbers

To enter common symbols, touch  to switch to symbol mode, then touch the corresponding key.

To enter less-common symbols, touch  → , then touch the corresponding key.

To enter numbers, touch , then touch the number keys.

Using Google Voice Typing from the Samsung keyboard

When you enable the Voice input setting for Samsung keyboard, you can access Google Voice Typing from the Samsung keyboard.

For more information about enabling Voice input, see “*Samsung keyboard*” on page 206.

- Touch , then speak your input.

Using Predictive text

When using Predictive text, you can have next-letter prediction and regional error correction, which compensates for pressing the wrong keys on the QWERTY keyboard.

- While entering characters, potential word matches display in the Predictive text area above the keyboard. Touch a word to insert it into your text.

Using Google Voice Typing

Use your voice to enter text using the Google Voice typing feature.


1. While entering text, touch and drag downward from the top of the screen to display Notifications, then touch **Select input method → Google voice typing**.
2. At the **Listening** prompt, speak your text. As you speak, the text is displayed in the text field.

Entering Text using Swype

Swype is a new way to enter text on touch screens. Instead of touching each key individually, use your finger to trace over the letters of a word. For each word, place your finger on the first letter and glide to the subsequent letters, lifting on the last letter.


Swype Help

While entering text, you can get information about Swype.

- Touch and hold  **Swype** to access Settings, for the **How to Swype** tutorial.

Configuring Swype

Configure Swype options in the Language and input settings.

- While entering text, touch and hold  **Swype**.
- For more information about Swype settings, see “Swype” on page 208.


Using the Numeric Keyboard

Switch to a Numeric Keyboard, to quickly enter numbers and mathematical operators.

- Touch .

Entering Symbols and Numbers

Using the Swype Keyboard:

- Touch and hold on a key to enter the character at the top of the key.
- Touch and hold on a key until a menu of all characters available on that key appears, then touch a character to enter it.
- Touch  to switch to Symbol mode, then touch a key.


Editing Keyboard

The Editing Keyboard provides a quick way to move the cursor and highlight text. If the application in which you are working supports editing, you can cut, copy or paste highlighted text.

- Swype from  **Swype** to .

Using Swype Voice Input

Enter text by speaking. Swype recognizes your speech and enters text for you.

- Touch  **Voice Input**. At the prompt, speak the text you want to enter.

Section 3: Contacts and Accounts

Accounts

Your device provides the ability to synchronize information, from a variety of accounts, including Email, Facebook, Google, and your Samsung account. Depending on the account, you can choose to synchronize your calendar, contacts, and other types of content.

Contacts from your accounts appear in your device's Contacts.

With synchronization, you can ensure that information on your device is updated with any information that changes in your accounts.



Setting Up Your Accounts

Set up and manage your accounts with the Accounts settings.



For information about setting up other, non-synchronized email accounts, see “*Setting Up Email Accounts*” on page 74.

Tip: For more information on setting up your email, visit the Smartphone Resource Center at:
<https://smartphones.verizonwireless.com>

Adding an account

1. From the Home screen, touch  **Apps** →  **Settings** → **Add account**.
2. Select an account provider, then follow the prompts to enter your credentials and sign in.
3. The device communicates with the provider's server to set up your account on the device.

Managing accounts

1. From the Home screen, touch  **Apps** →  **Settings**.
2. Select an account, then touch a setting to enable or disable synchronization. When enabled, a check mark appears in the check box.

Contacts

Use Contacts to store information for your friends, family and colleagues, to make contacting them easy.







To access Contacts:

- From the Home screen, touch  **Contacts**.

Contact tips:

- Swipe your finger left-to-right across a contact to make a call to the contact.
- Swipe right-to-left across a contact to create a message addressed to the contact.

Creating Contacts

1. From the Home screen, touch  **Contacts** →  **Create contact**.
2. At the **Save contact** prompt, select a save option for the contact (options depend on accounts set up):
 - **Device**: Save to the phone's Contacts.
 - **Google**: Save to your Google account.
 - **Corporate**: Save to your Corporate account.
3. Touch contact fields to enter information:
 - Touch  **Photo ID** to choose a picture to identify the contact.
 - Touch **Name** to enter a name for the contact. Touch  to enter **Name prefix**, **First name**, **Middle name**, **Last name**, or **Name suffix**.
 - Touch **Phone number** to enter a phone number, then touch the **Label** button to choose a label, from **Mobile**, **Work**, **Home**, **Main**, **Work Fax**, **Home Fax**, **Pager**, **Other**, or **Custom**. To add another number, touch .
 - Touch **Email address** to enter an email address, then touch the **Label** button to choose a label, from **Home**, **Work**, **Other**, or **Custom** to create a new label. To add an address, touch .
4. When you finish entering information, touch **Save**.
 - Touch **Groups** to assign the contact to a group. For more information about Groups, see “Groups” on page 52.
 - Touch **Ringtone** to choose a ringtone for the contact.
 - Touch **Vibration pattern** to choose a vibration pattern to play along with the ringtone when this contact calls or sends you a message.
 - Touch **Add another field** to add more fields, including **Phonetic Name**, **Organization**, **IM**, **Address**, **Notes**, **Nickname**, **Website**, **Events**, or **Relationship**.


Creating Contacts from Recent calls


Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, see “*Creating or Updating Contacts Using Recent calls*” on page 61.

Creating Contacts from the Phone Keypad



Enter a phone number with the Phone Keypad, then save it.

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to Contacts**, then select **Create contact** from the pop-up menu.
4. Continue entering contact information. For more information, see “*Creating Contacts*” on page 45.

Tip: While entering a phone number, you can add waits or pauses. Enter the number up to the pause or wait, then touch  **Menu** to select **Add 2 sec pause** or **Add wait**.


Updating Contacts

Make changes to update an existing contact.

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to view its information, then touch  **Edit**.
– or –
Touch and hold a contact, then select **Edit** from the menu.
3. Continue entering contact information. For more information, see “*Creating Contacts*” on page 45.

Updating Contacts from the Phone Keypad

Enter a phone number with the Phone Keypad, then save it.



1. From the Home screen, touch  **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to Contacts**, then select **Update existing** from the pop-up menu.
4. Select a contact to update, then continue entering contact information. For more information, see “*Creating Contacts*” on page 45.

Updating Contacts from Recent calls



Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, see “*Creating or Updating Contacts Using Recent calls*” on page 61.

Choosing Contacts to Display

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Contacts to display**:
 - Choose **All contacts** to show all contacts.
 - Choose an account to only display contacts from that account.
 - Touch **Device** to show only show contacts saved to the phone.
 - Touch **SIM** to show only contacts saved to the SIM card.
 - Choose **Customized list** to select contact types for each account, or the phone.

Contacts Settings

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Settings**:
 - Select **Only contacts with phones** to show contacts with at least one stored phone number.
 - Touch **List by** to sort contacts by first or last name.
 - Touch **Display contacts by** to list contacts by first or last name.
 - Touch **Service numbers** to view and call customer service for your service provider.
 - Touch **Contact sharing settings** to set your preferences for transferring contacts by Bluetooth. You can choose to send all namecards at once, or individually. For more information about sending contacts, see “*Sending Namecards (vCards)*” on page 50.


Other Contacts Options

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display it, then touch  **Menu**:
 - **History**: View calls and messages to and from this contact.
 - **Edit**: Modify contact information.
 - **Delete**: Erase the contact record.
 - **Link contact/Separate contact**: Manage multiple contacts as one. For information, see “*Linking Contacts*” on page 49.
 - **Mark as default**: Set a default phone number or other field (such as IM or email address). Defaults are the contact method used when creating a message or calling a contact. You can also set a default by touching and holding on a contact field.
 - **Share namecard via**: Send one or more selected contacts as namecards. For information, see “*Sending Namecards (vCards)*” on page 50.
 - **Add to reject list**: Mark the contact so that calls or messages from the contact are rejected automatically. To remove a contact from the reject list, touch and hold on the contact in the main contacts screen, then choose **Remove from reject list**.
 - **Place to home screen**: Add a shortcut icon to a Home screen to provide direct access to this contact.

My Local Profile

My local profile is your own contact record, listed under ME in Contacts. You can send My local profile as a vCard over a Bluetooth connection or as an attachment to a message.

Creating My Local Profile

1. From the Home screen, touch  **Contacts**.
2. At the top of the **Contacts** list, touch **Set up profile**, then enter your information in the contact fields. For more information, see “*Creating Contacts*” on page 45.

Sending My Local Profile

You can send your profile as a vCard over a Bluetooth connection or as an attachment to a message.


1. From the Home screen, touch  **Contacts**.
2. Under **ME**, touch your profile to display your contact information.
3. Touch  **Menu**, then touch **Share namecard via**.
4. Choose a sending method, then follow the prompts to send the profile.

Linking Contacts




Your device can synchronize with multiple accounts, including Google, Corporate, and other providers, plus social networking sites like Facebook. When you synchronize contacts from these accounts with your device, you may have multiple contacts for one person.

Linking contact records allows you to see all the contact's numbers and addresses together. Linking also helps you keep your contacts updated, because any changes to information in the respective accounts is automatically updated the next time you synchronize with the account.

Linking contacts



1. From the Home screen, touch  **Contacts**.
2. Touch and hold on a contact, then select **Link contact**.
3. Select a contact to join to the selected contact.

Separating contacts

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display its information.
3. Under the **Connection** heading, phone icons show how many contacts are linked to this one. Touch the  icon to display the linked contacts.
4. Touch  next to a contact to remove it from the **Linked contact** list.

Exporting and Importing Contacts

You can export your contact list to and from USB storage (your device's memory), or an installed memory card. Contacts are exported and imported as a special VCF file, and contacts are sent as vCards.

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Import/Export**.
3. Select an option, then follow the prompts to complete the operation:
 - **Import from USB storage:** Copy contacts that are saved in device memory.
 - **Export to USB storage:** Copy contacts to device memory.
 - **Import from SD card:** Copy contacts from an optional installed memory card (not included).
 - **Export to SD card:** Copy contacts to an installed memory card.
 - **Import from SIM card:** Copy contacts that are saved to the SIM card to device memory.
 - **Share namecard via:** Share contacts as vCards. For more information, see “*Sending Namecards (vCards)*” on page 50.

Sending Namecards (vCards)

You can send a contact namecard as a vCards using a Bluetooth connection to other Bluetooth devices, or as an attachment to a Gmail or Email message.

Important! Not all Bluetooth devices will accept contacts, and not all devices support transfers of multiple contacts. Check the target device's documentation.



1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Import/Export** → **Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark appears in the check box for marked contacts.
4. Touch **Done**. At the prompt, choose a sending method, then follow the prompts to send the namecard:
 - **Bluetooth:** For more information about sending using Bluetooth, see “*Bluetooth*” on page 163.
 - **Email:** For more information about sending email, see “*Email*” on page 74.

- **Gmail:** For more information about sending Gmail, see *“Composing and Sending Gmail”* on page 77.
- **Messaging:** For more information about sending messages, see *“Creating and Sending Messages”* on page 70.
- **Wi-Fi Direct:** For more information about using Wi-Fi Direct, see *“Wi-Fi Direct”* on page 160.

Backing Up Contacts

Use Backup Assistant Plus to save a copy of your Contacts to a secure web site.




For more information, see *“Backup Assistant Plus”* on page 212.

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Backup**.
3. Follow the prompts to log in to your Backup Assistant Plus account.

Favorites

Mark contacts with a ★ star to identify them as Favorites. Favorites display on the Favorites tab in the Phone and Contacts for fast dialing or messaging, and are indicated by the ★.



Creating Favorites

1. From the Home screen, touch  **Contacts**.
2. Touch  **Favorites** →  **Menu** → **Add to Favorites**, select the contacts to be added to favorites, then touch **Done**.
– or –
Touch a contact to display it, then touch ★ at the top right of the screen.





Groups

Assign contacts to Groups to make searching for contacts faster, or to quickly call or send messages to group members. Your device comes with pre-loaded groups you can use to add your contacts, or you can create new groups.




Accessing Groups

- From the Home screen, touch  **Contacts** →  **Groups**.




Creating a New Group

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch  **Menu** → **Create**, then enter information:
 - Touch **Group name** to enter a Group Name.
 - Touch **Group ringtone** to choose a ringtone for calls from members of this group.
 - Touch **Message alert** to choose an alert tone to play for messages from members of this group.
 - Touch **Vibration pattern** to choose a vibration to play for calls from members of this group.
 - Touch **Add member** to select members from Contacts.
3. Touch  to save the new group.




Editing a Group

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a Group to display it.
3. Touch  **Menu** → **Edit group**, then update information for the group. For more information, see “*Creating a New Group*” on page 52.




Deleting a Group

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch  **Menu**, then touch **Delete groups**.
3. Touch a group to mark it for deletion, or touch **Select all** to mark all groups. When selected, a check mark appears in the check box. You cannot delete pre-loaded groups.
4. Touch **Delete**, then choose **Group only** or **Group and group members**.
5. When prompted, touch **OK** to delete the selected group(s).

Adding Contacts to a Group




1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a **Group** to display it, then touch  **Add member**.
3. Touch contact(s) to mark them for addition, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
4. Touch **Done** to add the selected contact(s).

Removing Contacts from a Group

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a **Group** to display it.
3. Touch  **Menu**, then touch **Remove member**.
4. Touch contact(s) to mark them for removal, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
5. Touch **Done** to remove the selected contact(s).

Sending a Message to Group Members

Create a new text or email message, addressed to the group's members.

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a **Group** to display it.
3. Touch  **Menu**, then touch **Send message** or **Send email**.
4. Touch contacts to mark them as recipients for the new message, then touch **Done**.
5. The new message opens, with the marked contacts as recipients. Continue creating the message, as desired.

For more information, see *"Creating and Sending Messages"* on page 70, or see *"Composing and Sending Email"* on page 76.

Speed Dials

Speed dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.

For more information about calling using speed dials, see *"Making Calls using Speed Dials"* on page 56.

Note: Some speed dials are reserved by default, and cannot be assigned:

Speed dial 1 is reserved for Voicemail.



Speed dial 96 is reserved for data usage inquiries.

Speed dial 97 is reserved for balance inquiries.




Speed dial 98 is reserved for minutes inquiries.

Speed dial 99 is reserved for payment inquiries.

Assigning Speed Dials

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Speed dial setting**.
3. A list of speed dials displays. Touch a speed dial, then touch a contact to assign the contact to the speed dial.

Removing or Reassigning a Speed Dial

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, then touch **Speed dial setting**.
3. Touch  **Menu**, then touch an option:
 - **Change order:** Touch an assigned speed dial, then touch a new speed dial location to change the order.
 - **Remove:** Touch a speed dial to remove it.



Section 4: Calling

Making Calls

Your device offers multiple ways to make calls:

- Use the touch screen **Phone Keypad** to enter the phone number or speed dial.
- Call a contact from **Contacts**.
- Call a contact from **Favorites**.
- Return a call, or call a recent caller, from **Recent** calls.
- Voice dial using **S Voice**.


Making Calls Using the Phone Keypad

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the telephone number on the **Keypad**.
3. Touch  to place the call.

Making Calls using Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.


For more information about setting speed dials, see “*Speed Dials*” on page 54.

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the speed dial number on the **Keypad**, holding the last digit until the number dials.


Making Calls from Contacts

A contact is an entry that you have created to store the name, numbers, and other information for people or groups of interest.

For more information, see “*Contacts*” on page 44.



1. From the Home screen, touch  **Contacts**.
2. Find the contact and touch it to open the Contact entry.
3. Swipe your finger from left to right across the contact to dial their default number.

– or –

Touch a contact, then touch  to dial the number.

Making Calls using S Voice




Place a call by speaking the name or number.

1. From the Home screen, touch  **Phone**, then touch .
2. The first time you access, follow the prompts to confirm the license agreement, and view information about.
3. Follow the prompts to speak a command. You can say commands such as:
 - **Call <Name>**: Call an entry in your Contacts list.
 - **Dial <Phone number>**: Call a spoken phone number.
 - **Redial**: Repeat a recent call.

Tip: You can launch S Voice from most unlocked screens by pressing the  **Home Key** twice.

Making Calls using Favorites

Favorites are contacts that you designate as favorites by starring them. For more information about creating favorites, see “*Favorites*” on page 52.

1. From the Home screen, touch  **Phone**.
2. Touch  **Favorites** to display favorites.
3. Find the contact and touch it to open the Contact entry.
4. Swipe your finger from left to right across the contact to dial their default number.
– or –
Touch a contact, then touch  to dial the number.



Making Calls from Recent calls

Return a call, or call a number from a recent call stored in Recent calls.

For more information, see “*Recent Calls*” on page 60.

Multi-party Calling

Use multi-party call features to set up a call between multiple callers, such as for a conference call.

1. Establish the first call, by answering an incoming call or making a call.
2. Touch **Add call**. The first call is placed on hold.
3. Make the second call by touching the phone number digits, then press .
4. Touch **Merge** to merge the calls into one conference call.
5. To end the call touch .

Answering Calls

You can answer incoming calls when the device is locked or unlocked.

- Touch and drag the  **Answer** icon toward the middle of the screen.

Tip: To silence the ringtone for an incoming call, press the **Volume Key**.

Sending Calls to Voicemail

When your device alerts you to an incoming call, you can reject the call to send the caller to voice mail, or reject the call and send a message to the caller.

Rejecting a call

- Touch and drag the  **Reject** icon toward the middle of the screen.


Rejecting a call with a message

- Touch and drag **Reject call with message** toward the middle of the screen, then select an existing message, or **Create new message**.

Note: For more information about creating reject messages, see *“Set up call rejection messages”* on page 63.

Answering Call-Waiting Calls

When you receive a call while on a call:

- Touch and drag the  **Answer** icon to answer the incoming call. The original call is placed on hold, and remains on hold until you end the second call, or swap calls back to the original call.
- Touch **Swap** to place a call on hold and return to the original call.

Options During a Call

While in a call, you can use these features:

- **Add call:** Display the Dialer to set up a multi-party call.
- **Keypad:** Display a keypad to enter numbers.
- **End call:** End the phone call.
- **Speaker:** Enable or disable speakerphone.
- **Mute:** Mute or unmute your voice on the call.
- **Headset:** Switch the call's audio to a Bluetooth headset (device and headset must already be paired; for more information see *"Pairing with a Bluetooth Device"* on page 163).
- Touch  **Menu** for options:
 - **Contacts:** Launch Contacts.
 - **Message:** Launch Messaging.
 - **S Note:** Launch S Note.
 - **Noise reduction on/Noise reduction off:** Enable or disable noise reduction, to improve call audio quality in noisy environments.
 - **My call sound:** Choose options for call audio, in cases where you might need the sound softer or clear, or optimized for your right or left ear.

Ending a Call

- To end a call, touch



Recent Calls

When you place, answer, or miss a call, a record of the call is saved in Recent calls.




Accessing Recent calls

- From the Home screen, touch  **Phone** →






Recent calls.



Making Calls using Recent calls

1. From the Home screen, touch  **Phone**.
 2. Touch  **Recent** to display recent calls.
 3. Swipe your finger from left to right across the call to redial.
 - or –
- Touch a call, then touch  to dial the number.

Sending Messages using Recent calls




1. From the Home screen, touch  **Phone** →  **Recent calls**.
2. Swipe your finger from right to left across the call.
— or —
Touch a call, then touch  to create a message to the number.

Creating or Updating Contacts Using Recent calls




1. From the Home screen, touch  **Phone** →  **Recent calls**.
2. Touch and hold on a call, then select **Add to Contacts** from the pop-up menu.
3. Choose **Create contact** or **Update existing**.
4. Continue entering contact information. For more information, see “*Contacts*” on page 44.

Managing Recent calls

Deleting records




1. From the Home screen, touch  **Phone** →  **Recent calls**.
2. While viewing the calls, touch  **Menu**, then touch **Delete**.
3. Touch call records to mark them for deletion, or touch **Select all**. A check indicates marked records.
4. Touch **Delete** to delete marked records.

Filtering records

1. From the Home screen, touch  **Phone** →  **Recent calls**.
2. While viewing the calls, touch  **Menu**, then touch **View by**.
3. Select a filter type, from **All calls and messages**, **All calls**, **Missed calls**, **Dialed calls**, **Received calls**, **Rejected calls**, **All messages**, **Sent messages**, and **Received messages**.

Viewing call durations

View the length of the Last call, all Dialed calls, all Received calls, or All calls.



1. From the Home screen, touch  **Phone** →  **Recent calls**.
2. While viewing calls, touch  **Menu**, then touch **Call duration**.

Call Settings

Configure settings for calling with your device.




Call block

Manage your phone's Auto Reject/Accept mode.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call settings**.
3. Select **Call block** for these options:
 - **Incoming call:**
 - **Block calls:** Set blocking of incoming calls Off, to apply to All numbers, or to apply to numbers in your Call block list only.
 - **Call block list:** Choose to block all incoming calls with Unknown number, and/or Create/manage numbers whose calls are to be blocked.
 - **Outgoing call:**
 - **Block calls:** Set blocking of outgoing calls Off, to apply to All numbers, or to apply to numbers in your Call block list only.
 - **Call block list:** Create/manage numbers to whom outgoing calls are to be blocked.





Set up call rejection messages

Create and manage text messages to send to callers when rejecting incoming calls. Messages you create here are available from the incoming call screen when you use the Reject with message option.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Set up call rejection messages**.
3. Manage messages:
 - To create new messages, touch **Create**, then follow the prompts.
 - To change an existing message, touch the message, then edit the text.
 - To delete an existing message, touch , select the message(s) to be deleted or touch **Select all**, then touch **Delete**.



Answering/ending calls

Manage settings for answering and ending calls.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Answering/ending calls**.
3. Configure these options:
 - **The home key answers calls:** When enabled, you can answer an incoming call by pressing the  **Home Key**.
 - **Voice control:** When enabled, you can answer an incoming call using voice commands.
 - **The power key ends calls:** When enabled, pressing the  **Power/Lock Key** ends a call, without turning off the screen.



Turn off screen during calls

When enabled, the screen automatically turns off during phone calls, and the proximity sensor on the front of the device is used to turn the screen back on when the device is moved or brought close to another surface, such as when you move the device to your ear.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings**.
3. Touch **Turn off screen during calls** to enable or disable the option.



Call alerts

Set options for sounds and vibrations to occur during calls.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Call alerts**.
3. Configure options:
 - **Call vibrations:** Enable **Vibrate on connection to network** to have your device vibrate when it connects to the network. Enable on **Call-end vibration** to have the device vibrate when the other caller ends the call.
 - **Call status tones:** Choose options for sounds to play during calls. Enable **Call connect tone** to have the device play a tone when the other caller answers a call. Enable **Minute minder** to have a tone play once per minute during a call. Enable **Call end tone** to have the device play a tone when the other caller ends the call. Touch **OK** to save the settings.
 - **Alerts on call:** Enable to have notifications for alarms and new messages play during phone calls. When disabled, these notifications will be muted during a call.



Incoming call notifications

When enabled, incoming voice call notification pop-ups appear, when the screen is on.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Incoming call notifications** to enable or disable this option. A check mark appears to indicate this option is enabled.



Accessory settings for call

Configure headset options for calls.


1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Call accessories**.
3. Configure settings:
 - **Automatic answering:** When enabled, and you have a headset connected to the Headset Jack, incoming calls are answered automatically after a delay, set at Automatic answering timer.
 - **Automatic answering timer:** Choose a time period to delay before automatically answering an incoming call when Automatic answering is enabled and a headset is connected to the device.
 - **Outgoing call conditions:** When the device is paired with a Bluetooth headset, you can choose to make calls even when the device is locked.



Ringtones and keypad tones

Choose tones and/or vibration to play for incoming calls and keypad touches.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Ringtones and keypad tones**.
3. Configure settings:
 - **Ringtones:** Choose a default ringtone for incoming calls.
 - **Vibrations:** Choose a vibration pattern, or create your own pattern, to play for incoming calls when Incoming call vibration is turned On. Vibration plays along with the ringtone, if Silent mode is not enabled.
 - **Vibrate when ringing:** When enabled, the Device vibration plays for incoming calls.
 - **Keypad tones:** When turned on, sounds play when you touch the Phone keypad.



Personalize call sound

Choose options for call audio, in cases where you might need the sound softer or more clear, or optimized for your right or left ear. These are the defaults, but you can change them during a call by touching  **Menu** → **My call sound**.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings** → **Personalize call sound**.
3. Configure options:
 - **Adapt sound:** Follow the prompts to find the best call sound for you.
 - **Soft sound:** Higher voice frequencies are reduced.
 - **Clear sound:** Higher voice frequencies are increased.
 - **Off:** Choose Off to use the phone's defaults, or choose Soft sound, Clear sound, Optimized for left ear, or Optimized for right ear.



Noise reduction

Enable or disable noise reduction. When enabled, the effect of background noise is suppressed, to help you and the other caller hear better.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings**.
3. Touch **Noise reduction** to enable or disable the option.


Increase volume in pocket

When enabled, the device uses the proximity sensor to detect when the device is in a pocket or other close-fitting location such as a purse or bag, and increases the volume for incoming call ringtones.



1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings**.
3. Touch **Increase volume in pocket** to enable or disable the option.

Voicemail

Configure options for voicemail.

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings**.
3. Configure options:
 - **Voicemail service:** By default, your device uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it here.
 - **Voicemail settings:** By default, the speed dial for calling voicemail for your service provider is *86 (*VM). If you wish to use another speed dial, touch Voicemail number to set a new one.
 - **Sound:** Choose a ringtone to play for a voicemail notification.
 - **Vibrate:** Choose an option for vibration to play for a voicemail notification.

Other call settings

1. From the Home screen, touch  **Phone**.
2. Touch  **Menu** → **Call Settings**.
3. Configure options:
 - **Current country:** Choose the country you are in. This is used in Assisted dialing.
 - **Assisted dialing:** When turned On, your phone automatically dials appropriate codes and prefixes for international calls. Touch  to turn the option On or Off, then touch Assisted dialing to configure settings.
 - **Auto retry:** When enabled, the device will automatically redial a call if it receives a busy signal from the network.
 - **TTY mode:** Choose a TTY mode to enable TTY mode, for use with optional TTY equipment.
 - **Hearing aids:** Enable or disable hearing aid support.

Section 7: Connections

Wi-Fi

Wi-Fi is a wireless networking technology that provides access to local area networks.

Wi-Fi communication requires access to an existing Wi-Fi network. Wi-Fi networks can be Open (unsecured), or Secured (requiring you to provide login credentials).

Your device supports the 802.11 a/b/g/n Wi-Fi protocols.

Configuring Wi-Fi Settings

Configure your device's Wi-Fi settings. For more information, see *"Wi-Fi Settings"* on page 172.

Turning Wi-Fi On or Off

Turn your device's Wi-Fi service on or off. When you turn Wi-Fi service on, your device automatically searches for nearby available Wi-Fi networks.

Tip: When you turn Wi-Fi service on, your device automatically searches for available networks and displays them.

You can also turn Wi-Fi On or Off from Settings.

1. From the Home screen, sweep your finger downward to display Notifications.
2. If Wi-Fi is not already on, touch **Wi-Fi Off** to turn on Wi-Fi.

– or –

Touch **Wireless network available** to launch Wi-Fi settings, then touch **Wi-Fi**  .

Scanning and Connecting to a Wi-Fi Network

When you turn on Wi-Fi, your device searches for available Wi-Fi connections, then displays them.


1. From the Home screen, sweep your finger downward to display Notifications.
2. If Wi-Fi is not already on, touch **Wi-Fi Off** to turn on Wi-Fi.

– or –

Touch **Wireless network available** to launch Wi-Fi settings, then touch **Wi-Fi** .


3. When your device completes a scan, touch a Wi-Fi network to connect. If the Wi-Fi network is open, you will be automatically connected. If the Wi-Fi network is secured, enter the password at the prompt to connect.

Adding a Wi-Fi Network Manually



1. From the Home screen, sweep your finger downward to display Notifications.
2. If Wi-Fi is not already on, touch **Wi-Fi Off** to turn on Wi-Fi.
– or –
Touch **Wireless network available** to launch Wi-Fi settings, then touch **Wi-Fi** .
3. On the pop-up Wi-Fi settings screen, touch **Add Network** (below the scanned networks), then enter these fields:
 - **Network Name (SSID)**: Enter the name of the Wi-Fi network.
 - **Security**: Select the type of security used by the Wi-Fi network.
 - **Password**: If the network is secured, enter the password.
4. Touch **Connect** to save the settings and connect to the network now, or **Save** to save the network settings for future use.

Wi-Fi Direct



Wi-Fi Direct is a standard that allows devices to connect to each other directly using Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. This type of connection is commonly called peer-to-peer.

For example, your device can use Wi-Fi Direct to share photos, contacts and other content with other Wi-Fi Direct devices. Many of the apps on your device provide options for sharing over Wi-Fi Direct under  **Menu**.

Turning Wi-Fi Direct On or Off

1. From the Home screen, touch  **Menu**, then select **Settings** → **More settings**.
2. Touch **Wi-Fi Direct**  to turn Wi-Fi Direct On or Off.

Connecting to Wi-Fi Direct Devices

1. First, enable Wi-Fi Direct on your device. From the Home screen, touch  **Menu**, then select **Settings** → **More settings**, then touch **Wi-Fi Direct** .
2. Enable Wi-Fi Direct on the other device(s). Consult the other device's documentation for more information.
3. On your device, touch **Wi-Fi Direct** to scan for the other device(s).
4. In the scanned list, touch a device to connect with it, or touch **Multi-connect** to connect to multiple devices (not all devices support multi-connect).
5. Follow the prompts on both devices to complete the connection.

Mobile Hotspot

Use Mobile Hotspot to share your device's internet connection with a PC or other device through Wi-Fi, using your device as the mobile hotspot.

Note: Mobile Hotspot may require a subscription to Mobile Hotspot/Mobile Broadband Connect service. Contact Verizon Wireless for more information.

Mobile Hotspot consumes battery power and uses data service. While the Mobile Hotspot is active, your device's applications will use the Mobile Hotspot data allowance.

Configuring Mobile Hotspot Settings

Configure your device's Mobile Hotspot settings, including your device's name and password, and set the visibility of your device's Wi-Fi hotspot.

For more information, see “*Configuring Mobile Hotspot*” on page 178.

Turning Mobile Hotspot On or Off

Activate your device's Mobile Hotspot application to allow other devices to use your device's internet connection.

1. From the Home screen, select  **Apps** →



Mobile Hotspot.

2. Touch **Mobile Hotspot**  to turn the hotspot On or Off.

Tip: By default, your device's mobile hotspot has no security applied, and any device can connect. For more information about configuring your mobile hotspot, see “*Configuring Mobile Hotspot*” on page 178.

Connecting a Device to Mobile Hotspot



Use the other device's Wi-Fi control to connect to your device's Mobile Hotspot.

1. Turn on Mobile Hotspot on your device. For more information, see *"Turning Mobile Hotspot On or Off"* on page 161.
2. Activate Wi-Fi on the device, using the device's Wi-Fi control.
3. Scan for Wi-Fi hotspots, and select your device from the list. To find your device's name, see *"Configuring Mobile Hotspot"* on page 178.
4. At the prompt, enter your device's Mobile Hotspot password. By default, the password is your device's telephone number. For more information, see *"Configuring Mobile Hotspot"* on page 178.

Allowed Device List

Control whether devices connect to your Mobile Hotspot with the Allowed device list. After you add devices to the list, they can scan for your device and connect using your device's mobile hotspot name and password.


Note: Using your device as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your device's applications will use the Mobile Hotspot data service. Roaming while using your device as a mobile hotspot will incur extra data charges.

1. From the Home screen, select  **Apps** →  **Mobile Hotspot**.
2. Touch **Allowed devices**, then touch the button at the top of the screen to enter the other device's Device name and MAC address.
3. Touch **OK** to add the device to the Allowed devices list.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 245.

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet. You don't need to line up the devices to send information with Bluetooth. If the devices are in range, you can exchange information between them, even if they are in different rooms.



Your device can use Bluetooth to share photos, contacts and other content with other Bluetooth devices. Many of the apps on your device provide options for sharing over Bluetooth under  **Menu**.

Configuring Bluetooth Settings

Configure your device's Bluetooth settings. For more information, see *"Bluetooth settings"* on page 175.

Note: Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your device supports, see *"Bluetooth profiles"* on page 174.

Turning Bluetooth On or Off


1. From the Home screen, touch  **Menu**, then select **Settings**.
2. Touch **Bluetooth**  to turn Bluetooth On or Off.



Tip: You can also turn Bluetooth On or Off on Notifications. From almost any unlocked screen, sweep your finger down from the Status bar to display Notifications.

Pairing with a Bluetooth Device

Search for a Bluetooth device and pair with it, to exchange information between your device and the target device.

After pairing, your device and the target device will recognize each other and exchange information without a passcode or PIN.

Note: When paired, the  **Bluetooth paired** icon displays in the Status Bar. If you receive a new request for pairing while paired with a Bluetooth headset, a new Bluetooth icon displays at the left of the Status bar and Notifications displays the pairing request.

1. From the Home screen, touch  **Menu**, then select **Settings → Bluetooth**.
2. Touch **Bluetooth**  to turn Bluetooth On.
3. Activate the target device's discoverable mode.
4. Touch **Scan**.
5. From the list of scanned devices, touch the target device, then follow the prompts to complete the pairing:
 - If the target device requires a PIN, enter a PIN for the target device and touch **OK**. When prompted, enter the PIN on the target device.
 - If the device allows automatic or smart pairing, your device will attempt to pair with the device automatically. Follow the prompts on your device and the target device to complete the pairing.

VPN


You can use your device's VPN (Virtual Private Network) feature to connect to VPNs.

Configuring VPN Settings

Configure your device's VPN settings. For more information, see “*Nearby devices*” on page 181.

Note: You must enable at least Pattern security before setting up a VPN. If you have not yet enabled security, you'll be prompted to do so the first time you launch VPN settings.

Adding a VPN

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → VPN**.
2. Touch **Add VPN network** to set up a connection to a VPN. Available settings depend on the type of VPN.

Tethering


Use Tethering to share your device's internet connection with a computer that connects to your device using the USB cable, or by Bluetooth.

Touch **Help** under Tethering settings to view information about tethering, and for links to more information.

Note: Mobile Broadband Connect may require a subscription to Mobile Hotspot/Mobile Broadband Connect service. Contact Verizon Wireless for more information. Mobile Hotspot consumes battery power and uses data service. While the Mobile Hotspot is active, your device's applications will use the Mobile Hotspot data allowance.

Mobile Broadband Connect

Use Mobile Broadband Connect to share your device's network connection with a computer that connects to your device using the USB cable.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Tethering**.
2. Connect the other device to yours using the USB cable.
3. Touch **Mobile Broadband connect** to turn tethering On or Off.

Bluetooth tethering

Before starting, pair your computer with your device, then configure your computer to obtain its network connection using Bluetooth.


1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Tethering**.
2. Pair the other device to yours using Bluetooth.
3. Touch **Bluetooth tethering** to turn tethering On or Off.

Important! Tethering consumes battery power and increases your data usage. Roaming while using tethering will incur extra data charges.

NFC and Beaming

Use NFC (Near Field Communication) to share information between your device and another NFC device by beaming, typically by touching the devices together back-to-back.

Your device uses NFC for the S Beam feature. NFC must be turned on to use S Beam.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On or Off.



Note: NFC must be turned on to use S Beam.

S Beam

Share more and share it faster with S Beam. From photos to documents, large video files to maps, you can share almost anything instantly with one touch, simply by placing your devices back-to-back.

S Beam uses your device's NFC (Near Field Communication) feature to send, or “beam”, content to other NFC and Wi-Fi Direct devices, by holding the devices close together.

S Beam works in the background. Use the sharing options from your favorite apps to select content to share over S Beam. For example, you can beam pictures or videos from Gallery, or songs from Music player. Just bring the devices together (typically back-to-back), then tap the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On. NFC must be turned On to use S Beam.
3. Touch **S Beam**, then touch  to turn S Beam On or Off.

Note: If you turn on S Beam, NFC is automatically turned On.


Nearby devices

Share files with nearby devices using DLNA (Digital Living Network Alliance) standards, over Wi-Fi.


To share with nearby devices, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

Important! Use care when enabling file sharing for nearby devices. When enabled, other devices can access data on your device.

Turning File sharing On or Off

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Nearby Devices**.
2. Touch **File sharing** to turn sharing On or Off.

Configuring File Sharing

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Nearby Devices**.
2. Under **Advanced**, touch options to control how content is shared from your device:
 - **Shared contents:** Choose the type of content to share, from **Videos, Photos, or Music**.
 - **Device name:** View or modify your device's name.
 - **Allowed devices list:** View and manage devices allowed to connect to your device.
 - **Not-allowed devices list:** View and manage devices restricted from connecting to your device.
 - **Download to:** Choose a location to save downloaded content, from USB storage (device memory) or SD card.
 - **Upload from other devices:** Choose how to handle incoming files from other devices, from **Always accept, Always ask, or Always reject**.

Connecting to a Computer

Connect your device to a computer to transfer data between your device and the computer. Use the USB cable that comes with your device, or use one of the pre-loaded apps on your device to connect wirelessly.

Transferring Data

Connect your device to a computer, using the USB cable, to transfer data as a Media device using MTP (Media Transfer Protocol), or as a Camera using PTP (Photo Transfer Protocol).

1. Attach your device to the computer with a USB data cable. Your device recognizes the connection as the last connection method you used, and displays a connection alert in the Status bar and Notifications.
2. From the Home screen, sweep your finger downward to display Notifications, then touch the alert.
3. Select a connection method:
 - **Media device (MTP):** Transfer media files with Windows, or using Android file transfer on a Mac (see www.android.com/filetransfer).
 - **Camera (PTP):** Transfer photos using camera software, and transfer files to computers that do not support MTP.

4. On your computer, choose a method for accessing your device. Available options depend on the programs installed on your computer.
5. Transfer files to the memory card. When finished, you can disconnect the USB cable.

Kies air

Manage content saved on your device using your desktop or mobile browser and Wi-Fi technology. The pre-loaded Kies air app connects over Wi-Fi to the Kies application, which you can install on your computer.

For more information, visit: www.samsung.com/us/kies

Note: To sync your device to a PC, it is highly recommended that you install Samsung Kies, which is available at <http://www.samsung.com/kies> (for Windows/Mac).

Note: If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer. Also, ensure that you have Samsung Kies 2.0 or Windows Media Player 10 or higher installed on your computer.

Memory Card

Your device supports removable microSD™ or microSDHC™ memory cards of up to 64GB capacity, for storage of music, pictures, videos, and other files.

By default, files that you download, or that you create with your device, such as pictures and videos you capture with Camera, are stored to your device's memory. For more storage capacity, you can set the memory card as the primary storage location for apps with the app's options.

For more information about viewing memory usage for the memory card, see “SD card” on page 192.

Installing and Removing a Memory Card


For more information about installing and removing a memory card, see “Memory Card” on page 14.

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

Mounting and Unmounting a Memory Card

Mounting a memory card establishes the connection between your device and the card, to prepare for saving files to the memory card. In most cases, the device mounts the card automatically when you install it, and displays the memory card status on Notifications.


Before removing the card, use the Mount/Unmount setting to unmount, it to prevent damage to data stored on the card.

1. From the Home screen, touch  **Menu**, then select **Settings → Storage**.
2. Touch **Unmount SD card**, then follow the prompts.

Formatting a Memory Card

Use the Format SD card setting to remove all data from an installed memory card.

Important! Data cannot be recovered after formatting.

1. From the Home screen, touch  **Menu**, then select **Settings → Storage**.
2. Touch **Format SD card**, then follow the prompts to confirm the deletion of data from the card.


Section 8: Settings

Accessing Settings

From the Home screen

- Touch  **Apps** →  **Settings**.
— or —
Touch  **Menu**, then select **Settings**.



From Notifications


- Touch and drag down from the top of the screen to display notifications, then touch .

Wireless and network

Airplane mode

When airplane mode is enabled, all your device's wireless connections are disabled, and you cannot make or receive calls or messages or connect to networks. While in airplane mode, you can use other features of your device, such as playing music, watching videos, or other applications.

1. From the Home screen, touch  **Apps** →  **Settings**.
2. Touch **Airplane mode** to enable or disable airplane mode.

Note: Airplane mode can also be controlled from Notifications, and from Device options when you press and hold the  **Power/Lock Key**.

Device

Wi-Fi




Set up and manage your device's connections to Wi-Fi networks. Your device supports Wi-Fi a/b/g/n.

For more information about using Wi-Fi, see “*Wi-Fi*” on page 158.

Turning Wi-Fi On or Off

Turn your device's Wi-Fi service on or off. When you turn Wi-Fi service on, your device automatically searches for available Wi-Fi networks.

Tip: You can also turn Wi-Fi On or Off from Notifications.

1. From the Home screen, touch  **Apps** →  **Settings**.
2. Touch **Wi-Fi**  to turn Wi-Fi On or Off.

Wi-Fi Settings

Set up and manage wireless access points.

1. From the Home screen, touch  **Apps** →  **Settings** → **Wi-Fi**.
2. Touch **Wi-Fi**  to turn Wi-Fi On. Wi-Fi must be turned on to configure settings.
3. Touch settings to configure:
 - **Notify me:** When enabled, your device notifies you of Wi-Fi networks when you launch a high data-usage application.
 - **Add Wi-Fi Network:** Connect to a new Wi-Fi network. For more information, see “*Adding a Wi-Fi Network Manually*” on page 159.
 - **Scan:** Search for available Wi-Fi networks.
 - **Wi-Fi Direct:** Configure Wi-Fi Direct.

Other Wi-Fi settings

1. From the Home screen, touch  **Apps** →



Settings → **Wi-Fi**.

2. Touch  **Menu** for additional settings:

- **Advanced:**



- **Auto-connect:** When enabled, your device will automatically connect to known Wi-Fi networks when you launch a high data-usage application, even if Wi-Fi is turned off. A known Wi-Fi network is one that you previously added.
- **Keep Wi-Fi on during sleep:** Specify when to switch from Wi-Fi to mobile data for data communications, when the device goes to sleep (when the backlight goes out). This setting can affect your data usage, and the behavior of devices you connect to your device, such as when tethering or using Mobile Hotspot.
- **Check for Internet service:** When enabled, your device will check for Wi-Fi Internet service when connected to a Wi-Fi access point.
- **MAC address:** (Not configurable) View your device's MAC address, needed for connecting to some secured networks.
- **IP address:** (Not configurable) View your device's IP address.

- **Manage networks:** View and manage your saved Wi-Fi networks. Touch a network to connect to it, or to forget or modify its settings.
- **WPS push button:** Set up a connection to a WPS (Wi-Fi Protected Setup) router or equipment.
- **WPS PIN entry:** View the PIN used by your device to set up a PIN-secured connection to a Wi-Fi router.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly using Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, your device can use Wi-Fi Direct to share photos, contacts and other content with other Wi-Fi Direct devices.

For more information, see “*Wi-Fi Direct*” on page 160.

1. From the Home screen, touch  **Apps** →  **Settings** → **Wi-Fi**.
2. Touch **Wi-Fi Direct** at the bottom of the screen. Your device automatically scans for nearby Wi-Fi Direct devices, or you can touch **Scan** to start scanning.
3. After scanning for devices, select a device, then follow the prompts to complete the connection.
– or –
Touch **Multi-connect** to create a connection to devices that support multi-connect. Touch **Scan** to search for available multi-connect devices, then select the devices and follow the prompts to complete the connection.

Bluetooth

Your device supports Bluetooth® 4.0.

Bluetooth profiles

Bluetooth profiles are specifications for services supported by individual devices. Profiles improve the ability of different devices to work together. Your device supports these Bluetooth profiles:




- **Headset:** HSP v1.2 profile supports use of compatible Bluetooth headsets for mono voice.
- **Handsfree:** HFP v1.5 profile supports Bluetooth headsets, and may also support other compatible Bluetooth devices with speakerphone capabilities.
- **Serial Port:** SPP profile supports connections as a serial port.
- **Stereo:** A2DP v1.2, AVRCP v1.3, GAVDP 1.0, AVCTP 1.3 and AVDTP 1.2 profiles support delivery of stereo audio to compatible Bluetooth devices.
- **Object Exchange:** OPP v1.0 profile allows sending and receiving of contact name cards (vCard 2.1) and calendar events (vCalendar) between devices. PBAP v1.2 supports exchange of Phone Book Objects.

- **Human Interface Devices:** HID v1.0 profile supports certain interface devices.
- **Personal Area Network:** PAN 1.0 supports exchange of data with other devices.
- **Message Access Profile:** MAP 1.0 allows exchange of SMS messages between devices, such as with an automotive hands-free device.

Note: This device does not support all Bluetooth profiles.

For vehicle/accessory compatibility, visit
www.verizonwireless.com/bluetoothchart.

Turning Bluetooth On or Off





1. From the Home screen, touch  **Apps** →  **Settings**.
2. Touch **Bluetooth**  to turn Bluetooth On or Off.

Tip: You can also turn Bluetooth On or Off at Notifications.

Bluetooth settings

Pair with other Bluetooth devices, manage your Bluetooth connections, and control your device's visibility to other devices.

Note: Bluetooth must be turned On to access Bluetooth settings.

1. From the Home screen, touch  **Apps** →  **Settings** → **Bluetooth**.
2. Touch a setting to configure Bluetooth:
 - Touch  to turn Bluetooth On or Off.
 - Touch your device's name to control its visibility to other devices' Bluetooth searches. Available when Bluetooth is turned On.
 - Touch a paired device to connect to it, or touch  beside the device to change its settings.
 - Touch **Scan** to search for visible Bluetooth devices. After searching, touch a device to pair with it. For more information, see "Pairing with a Bluetooth Device" on page 163.




Data usage

Monitor data usage, control your device's connection to mobile data service.

Note: Data usage is measured by your device, and your service provider may account for usage differently, so consider using a conservative limit.

1. From the Home screen, touch  **Apps** →  **Settings** → **Data usage**.
2. Configure options:
 - **Mobile data:** Turn Mobile data On or Off. You can also control Mobile Data at Notifications.
 - **Limit mobile data usage:** When enabled, your mobile data connection will be disabled when the specified limit is reached. After enabling the setting, drag the red limit line on the graph below to set the data usage limit.
 - **Alert me about data usage:** When enabled, your device will alert you when mobile data usage reaches the warning limit you set. After enabling the setting, drag the orange warning line on the graph below to set the data usage warning limit.

Data usage options

1. From the Home screen, touch  **Apps** →  **Settings** → **Data usage**.
2. Touch  **Menu** to set options:
 - **Data roaming:** Turn data roaming On or Off. When roaming, your device connects to networks outside your home network, depending on your provider's agreements with other providers. Using data while roaming can incur extra charges, depending on your plan. For more information, contact Verizon Wireless.
 - **Restrict background data:** Your device can connect to the network in the background, for synchronization or other services. When enabled, background connections will not occur.
 - **Auto sync data:** When enabled, your device will synchronize with accounts automatically, at any time.
 - **Show Wi-Fi usage:** When turned On, a separate tab displays data usage while connected to Wi-Fi.
 - **Mobile hotspots:** Select Wi-Fi networks that are mobile hotspots. You can restrict apps from using these networks, and you can configure apps to warn you before using these networks for large downloads.

More Wireless and Network Settings

Mobile networks

Set options for network selection and data service.

Important! Depending on your service plan, changes you make to mobile networks settings may incur extra charges. Consult Verizon Wireless for information.

1. From the Home screen, touch  **Apps** →  **Settings** → **More settings** → **Mobile networks**.
2. Set these options:
 - **Mobile data:** Enable or disable your device's connection to the mobile data network. You can also control this setting at Notifications with the Mobile data toggle.
 - **Global Data Roaming Access:** Enable or disable connection to data services when your device is roaming on another network.
 - **Roaming:** (Not configurable) Current roaming status.
 - **Signal strength:** (Not configurable) Current signal strength.
 - **Network mode:** Choose a preferred network mode.
 - **Access Point Names:** Configure wireless network access.
 - **Network operators:** Configure network operators.

Mobile Hotspot

Use Mobile Hotspot to share your device's internet connection with other devices, through Wi-Fi. You can connect up to 5 other devices in 3G, or 10 in 4G.




You can control whether devices connect to your Mobile Hotspot with the Allowed device list.

For more information about using your device as a mobile hotspot, see "*Mobile Hotspot*" on page 161. You can also access Mobile Hotspot with the  **Mobile Hotspot** app.

Note: Mobile Hotspot may require a subscription to Mobile Hotspot/Mobile Broadband Connect service. For more information, contact Verizon Wireless.

Using your device as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your device's applications will use the Mobile Hotspot data service. Roaming while using your device as a mobile hotspot will incur extra data charges.

Turning Mobile Hotspot On or Off

1. From the Home screen, touch  **Apps** →  **Settings**.
2. Touch **Mobile Hotspot**  to turn Mobile Hotspot On or Off.

Note: Using your device as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your device's applications will use the Mobile Hotspot data service. Roaming while using your device as a mobile hotspot will incur extra data charges.





Configuring Mobile Hotspot

1. From the Home screen, touch  **Apps** →  **Settings** → **Mobile Hotspot**.
2. Touch **Configure** for these options:
 - **Network SSID:** View and change the name of your mobile hotspot.
 - **Hide my device:** When enabled, your mobile hotspot is not visible to other Wi-Fi devices during a scan. Other devices can still connect to your mobile hotspot, but will have to set up the connection manually with your Network SSID and Password.
 - **Security:** Choose the security level for your Mobile Hotspot.
 - **Password:** If you choose a security level that uses a password, enter the password. By default, the password is your mobile telephone number.
 - **Show password:** Enable to make the Password field visible.
 - **Show advanced options:** Enable to access advanced options, including Broadcast channel, to specify the channel your device uses for Mobile Hotspot.

Allowed Devices

Control whether devices connect to your Mobile Hotspot with the Allowed devices list. After you add devices to the list, they can scan for your device and connect using your device's mobile hotspot name and password.

Note: Using your device as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your device's applications will use the Mobile Hotspot data service. Roaming while using your device as a mobile hotspot will incur extra data charges.



1. From the Home screen, touch  **Apps** →  **Settings** → **Mobile Hotspot** → **Allowed devices**.
2. Touch , then enter the other device's Device name and MAC address.
3. Touch  to add the device to the **Allowed devices** list.

Tip: For information about connecting to your Mobile Hotspot, see “*Connecting a Device to Mobile Hotspot*” on page 162.

Tethering

Use Tethering to share your device's internet connection with a computer that connects to your device using the USB cable, or by Bluetooth.

For more information about connecting computers to your device for Tethering, see “*Tethering*” on page 165.

1. From the Home screen, touch  **Apps** →  **Settings** → **More settings** → **Tethering**.
2. Choose a tethering method:
 - **Mobile Broadband Connect:** Connect the computer to the device using the USB cable, then touch **Mobile Broadband Connect** to turn tethering On or Off.
 - **Bluetooth tethering:** Pair your device with the computer using Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair using Bluetooth. Touch **Bluetooth Tethering** to turn tethering On or Off.



Note: Using Mobile Broadband Connect tethering requires a subscription to Mobile Hotspot/Mobile Broadband Connect service. For more information, contact Verizon Wireless.

VPN

Set up and manage Virtual Private Networks (VPNs). For more information about using VPNs, see “VPN” on page 164.

Note: You must enable screen security before setting up a VPN. For information about screen security, see “Screen lock” on page 196.




Adding a VPN

1. From the Home screen, touch  **Apps** →  **Settings** → **More settings** → **VPN**.
2. Touch **Add VPN network** to set up a connection to a VPN, using the following settings:
 - **Name:** Enter a name for the VPN connection.
 - **Type:** Choose the type of VPN.
 - **Server address:** Enter the IP address of the VPN server.
 - **PPP encryption (MPPE):** Touch to enable or disable encryption.
 - **Show advanced options:** Touch to show more options.
Available options depend on the type of VPN you are adding.

NFC

Use NFC (Near Field Communication) to share information between your device and another NFC device by touching the devices together, typically back-to-back.

For more information about sharing information with NFC, see “NFC and Beaming” on page 166.

1. From the Home screen, touch  **Apps** →  **Settings** → **More settings**.
2. Touch **NFC**  to turn NFC On or Off.

S Beam

S Beam uses your device's NFC (Near Field Communication) to send, or “beam”, content to other NFC and Wi-Fi Direct devices, by holding the devices close together.

S Beam works in the background. Use the sharing options from your favorite apps to select content to share using S Beam. For example, you can beam pictures or videos from Gallery, songs from Music player, notes from S Note, and more. Just bring the devices together (typically back-to-back), then tap your screen.

1. From the Home screen, touch  **Apps** →



Settings → **More settings**.

2. Touch **S Beam**  to turn S Beam On or Off.

Nearby devices



Share files with devices using DLNA (Digital Living Network Alliance) standards, over Wi-Fi.

To Nearby devices, you must connect to the same Wi-Fi network as the devices you wish to share with, and the other devices must support DLNA.

For more information about connecting to Wi-Fi, see “Wi-Fi” on page 172.

Important! Use care when enabling file sharing for devices.

When enabled, other devices can access data on your device.

1. From the Home screen, touch  **Apps** →
 **Settings** → **More settings** → **Nearby devices**.
2. Touch **File sharing** to enable or disable file sharing.
3. Under **Advanced**, touch options to control how content is shared from your device:
 - **Shared contents:** Choose the type of content to share, from **Videos**, **Photos**, or **Music**.
 - **Device name:** View or modify your device's name.

- **Allowed devices list:** View and manage devices allowed to connect to your device.
- **Not-allowed devices list:** View and manage devices restricted from connecting to your device.
- **Download to:** Choose a location to save downloaded content, from USB storage (device memory) or optional installed SD card (not included).
- **Upload from other devices:** Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

AllShare Cast

With AllShare Cast, you can wirelessly share your phone's screen with Wi-Fi-enabled TVs using the optional AllShare Cast Hub accessory (not included).

1. From the Home screen, touch  **Apps** →  **Settings** → **More settings** → **AllShare Cast**.
2. Touch **AllShare Cast**  to turn the feature On or Off.



Note: For information about connecting to a device, touch **Help**.

Device

Home screen mode

Your phone offers two Home screen modes:

- Starter mode provides an easier experience for the first-time smartphone user.
- Standard mode provides a conventional layout for apps and widgets on the Home screen.



1. From the Home screen, touch  **Apps** →  **Settings** → **Home screen mode**.
2. Choose a mode from the pulldown menu, then touch **Apply**.

Sound

Volume



Set the system volume level, and set default volume for call ringtones, notifications, and media playback.

Note: You can also set System volume from the Home screen by pressing the **Volume Key**.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Volume**.
2. Touch and drag the sliders for:
 - **Music, video, games, and other media:** Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
 - **Ringtone:** Set the volume for incoming call ringtones.
 - **Notifications:** Set the volume for notifications, such as new messages and event reminders.
 - **System:** Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.
3. Touch  to save your settings.




Vibration intensity

Set the level for vibration to accompany ringtones and notifications.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Vibration intensity**.
2. Touch and drag the sliders for:
 - **Incoming call:** Set the vibration level for incoming call ringtones.
 - **Notification:** Set the vibration level for notifications, such as new messages and event reminders.
 - **Haptic feedback:** Set the vibration level vibrations to accompany screen touches.
3. Touch  to save your settings.

Device ringtone




Choose a ringtone for incoming calls.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Device ringtone**.
2. Touch a ringtone to select it. As you touch ringtones, a sample plays, unless you have Mute or Vibrate mode enabled.
3. Touch  to save your settings.

Tip: You can also set songs as ringtones for all calls, or for a selected contact. For more information, see *“Making a Song a Phone Ringtone”* on page 148.




Device vibration

Choose a vibration pattern to use when vibration is enabled.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Device vibration**.
2. Touch a pattern to select it. As you touch patterns, a sample plays.
3. To create your own pattern, touch **Create**. Touch **Tap to create** in the pattern, then touch **Stop**. Touch **Save** to save your pattern.
4. Touch  to save your settings.

Default notifications



Choose a default sound to play for notifications, such as for new messages and event reminders.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Default notifications**.
2. Touch a sound to select it. As you touch sounds, a sample plays.
3. Touch  to save your settings.

Tip: You can also set songs as ringtones. For more information, see *“Making a Song a Phone Ringtone”* on page 148.



Sound and vibration

When enabled, vibration is played at the same time as sounds for calls and alerts.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Sound and vibration**.
2. Touch **Sound and vibration** to turn the feature On or Off.



Keytones

Keytones are sounds that play when you touch keys on the Phone keypad.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound**.
2. Touch **Keytones** to turn key sounds On or Off.



Touch sounds

Touch sounds play when you touch items on the screen, such as when making a selection.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound**.
2. Touch **Touch sounds** to turn sounds On or Off.



Screen lock sound

Screen lock sound plays when you lock or unlock the screen.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound**.
2. Touch **Screen lock sounds** to turn sounds On or Off.



Haptic feedback

When turned On, the device vibrates to indicate screen touches and other interactions.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound**.
2. Touch **Haptic feedback** to turn touch vibrations On or Off.

Emergency tone



You can choose to have a tone play, or have your phone vibrate, periodically during an emergency call.

1. From the Home screen, touch  **Apps** →  **Settings** → **Sound** → **Emergency tone**.
2. Select **Off**, **Alert**, or **Vibrate**.

Display

Wallpaper



Customize the background of the Home and Lock screens.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **Wallpaper**.
2. Select a screen, from **Home screen**, **Lock screen**, or **Home and lock screens**.
3. Select a source for wallpaper, from **Gallery**, **Live wallpaper**, or **Wallpapers**.
4. Follow the prompts to set the picture or wallpaper.

Note: You can also set Wallpaper by touching and holding on the Home screen.

LED Indicator



The LED indicator on the front of the device displays when the device is locked, to notify you of status changes and events. Use LED indicator settings to configure how the LED functions.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **LED Indicator**.
2. Select options:
 - **Charging:** When turned On, the LED glows red during charging, and green when the battery is fully charged.
 - **Low battery:** When turned On, the LED blinks red to indicate low battery charge.
 - **Missed event:** When turned on, the LED blinks orange to show that you have missed calls, new messages, or application events.

Multi window

When enabled, Multi Window allows you to use multiple apps on the same screen, in multiple, resizable windows.




For more information about Multi window, see “Multi Window” on page 30.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Multi window** to enable or disable the feature.

Tip: You can also enable or disable Multi window from Notifications. Sweep your finger down from the top of the screen to display Notifications, then touch Multi window.

Page buddy



Enable Page buddy to have selected Page buddies automatically appear on the Home screen when you use S Pen, or optional accessories such as earphones or a dock, or while you are roaming. Page buddies give you information about using the connected accessory, and offer apps at the bottom of the screen you might like to use with the accessory. An icon will appear in the Home screen page indicator, to let you know a Page buddy is active.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Page buddy**  to turn the feature On or Off.
3. Touch **Page buddy**, then select page buddies.

Tip: For more information about page buddies, touch **Page buddy help**.




Screen mode

Choose a screen mode to match your type of viewing.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch Screen mode, then select a mode.



Brightness

Set the default screen brightness.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **Brightness**.
2. Drag the slider to set the brightness, or touch **Automatic brightness** to allow the device to adjust brightness in response to light conditions.
3. Touch  to save the setting.

Auto-rotate screen



When enabled, the screen's orientation automatically changes when you rotate the device.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Auto-rotate screen** to turn the feature On or Off.

Tip: You can also control Auto-rotate from Notifications with the Screen rotation setting.



Screen timeout

Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **Screen timeout**.
2. Touch a setting to select it.


Smart rotation

When enabled, your device automatically adjusts or disables automatic screen rotation to allow for the position of your face and the device.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Smart rotation** to enable or disable the setting.

Smart stay

When enabled, your device automatically disables the screen timeout to keep the screen on as long as you are looking at it.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Smart stay** to enable or disable the setting.


Font style

Set the font for screen displays.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **Font style**.
2. Select a font, or touch **Get fonts online** to browse and download a new font.



Font size

Set the font size for screen displays.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **Font size**.
2. Select a font size.



Touch key light duration

Set the length of time the Menu and Back Keys remain lit after you touch them.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display** → **Touch key light duration**.
2. Choose a time period, or **Always off** or **Always on**.



Display battery percentage

When On, the battery's charge level displays in the Status bar next to the Battery icon.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Display battery percentage** to turn the setting On or Off.

Auto adjust screen tone

When turned On, your device automatically analyzes the screen and adjusts the brightness to conserve battery power.

1. From the Home screen, touch  **Apps** →  **Settings** → **Display**.
2. Touch **Auto adjust screen tone** to turn the feature On or Off.



Storage

Manage the use of memory resources in your device's Device memory, and on an installed memory card.



Device memory

View usage for your device's internal memory.

Note: This setting cannot be configured.




1. From the Home screen, touch  **Apps** →  **Settings** → **Storage**.
2. Under **Device memory**, view memory usage for various categories. Touch a category for more information.

SD card

1. From the Home screen, touch  **Apps** →  **Settings** → **Storage**.
2. Under **SD card**, view memory usage for various categories. Touch a category for more information.
3. Touch **Unmount SD card** to prepare the memory card for safe removal or formatting. For more information, see “*Removing a Memory Card*” on page 14.
4. Touch **Format SD card** to permanently remove all content from an installed memory card.



Power saving mode

Configure Power saving mode settings to conserve battery power.

1. From the Home screen, touch  **Apps** →  **Settings** → **Power saving mode**.
2. Touch **Power saving mode**  to turn the setting On or Off. The setting must be On to configure options.
3. Touch **Power saving mode** to configure options:
 - **CPU power saving**: When enabled, the device's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.
 - **Screen power saving**: When enabled, the screen uses reduced frame refresh rate and lower brightness.
 - **Background color**: When enabled, the background uses lower brightness in Email and Internet.
 - **Turn off Haptic feedback**: When enabled, Haptic feedback is turned off, and no vibration plays when you touch the screen.
 - **Learn about power saving**: View details about Power saving options.

Battery



See what's using battery power.

1. From the Home screen, touch  **Apps** →  **Settings** → **Battery**.
2. View battery usage for applications and services currently running. Touch an item for more information, or to configure options for managing power use.

Application manager

You can download and install applications from the Google Play™ Store or S Suggest, or create applications using the Android SDK and install them on your device. Use Application manager to manage applications on your device.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

1. From the Home screen, touch  **Apps** →  **Settings** → **Application manager**.
2. Touch **Downloaded**, **Running**, or **All** to view the status of applications and services. Touch an app or service for more information, and for app options, such as stopping or uninstalling.

Personal

Location services

Location services control your device's use of GPS signals. Some apps may require one or more location services be turned On for full app functionality.



GPS signals may be affected by your surroundings, including:

- Buildings
- Tunnels or underground structures
- Weather conditions
- High-voltage or electromagnetic fields
- Tinted windows

Important! Verizon Wireless values your privacy. Because of this, your device is defaulted to only acquire your location when you dial 911. To use Location-Based Services, you must first enable location services on your device.

E911

E911 location service is standard on all mobile phones, to allow sharing of your GPS location with emergency personnel when you make a call to emergency services (such as 911). This setting is not configurable.



- From the Home screen, touch  **Apps** →  **Settings** → **Location services** → **E911**.

VZW location services

Enable or disable location service from Verizon Wireless.

Note: VZW location services must be enabled to use some applications.

Important! By selecting VZW location services, you are enabling Verizon Wireless and third-party authenticated and validated location services to access certain location information available through this device and/or the network.



1. From the Home screen, touch  **Apps** →  **Settings** → **Location services**.
2. Touch **VZW location services** to enable or disable Verizon Wireless location services.

Standalone GPS services

Enable or disable location service from GPS satellites.

Note: Standalone location services must be enabled to use some applications. You can also enable or disable Standalone GPS services with the GPS setting on Notifications. For more information, refer to “*Notifications*” on page 32

Important! By selecting Standalone GPS services, you are allowing access to all location information by any third party through web access or any software or peripheral components you choose to install, download, add, or attach to the device or any other means. Enabling this functionality could pose certain risks to users of this device.



1. From the Home screen, touch  **Apps** →  **Settings** → **Location services**.
2. Touch **Standalone GPS services** to enable or disable Standalone GPS services.

Google location services

Enable or disable location services from Google location services.

Note: Google location services must be enabled to use some applications.

Important! By selecting Google location services, you are allowing Google's location service to collect anonymous location data. Some data may be stored on your device. Collection may occur even when no apps are running.



1. From the Home screen, touch  **Apps** →  **Settings** → **Location services**.
2. Touch **Google location services** to enable or disable Google location services.

Lock screen

Choose settings for unlocking your device.

For more information about using the lock and unlock features, see *"Securing Your Device"* on page 15.



Screen lock

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Screen lock** for settings:
 - **Swipe:** When enabled, you unlock the device by swiping your finger across the screen. This is the default screen lock, and offers no security, but you can set special lock screen options; see *"Lock screen"* on page 196.
 - **Motion:** When enabled, you unlock the device by touching and holding on the screen and tilting the device forward. Touch the option for more information and a demonstration of the motion. This screen lock offers no security, but you can set special lock screen options; see *"Lock screen"* on page 196.
 - **Face unlock:** When enabled, you unlock the device by looking at the screen. This option offers low security, because someone who looks similar to you could unlock your device. Touch the option for more information, and to set up Face unlock.

- **Face and voice:** When enabled, you unlock the device by looking at the screen and speaking. This option offers low security, because someone who looks and/or sounds similar to you could unlock your device. Touch the option for more information, and to set up Face and voice unlock.
- **Pattern:** When enabled, you draw a pattern, which you create, on the screen to unlock the device. Touch the option, then follow the prompts to create or change your screen unlock pattern.
- **PIN:** When enabled, you enter a numeric PIN (Personal Identification Number), which you create, to unlock the device. with PIN screen lock, you can also set the With swipe lock and Lock screen options.
- **Password:** When enabled, you enter an alphanumeric password, which you create, to unlock the device.
- **None:** Disable all custom screen lock settings, to use the default swipe unlock screen.

With swipe lock





When you have Face, Face and voice, Pattern, PIN, or Password screen locks enabled, you may choose to have your device prompt you to swipe the screen before attempting to unlock the screen.


1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **With swipe lock** to enable or disable the option.

Note: The With swipe lock setting is only available if you have set one of the screen locks listed above.

Lock screen options



When the Screen lock is set to Swipe or Motion, or you have the With swipe lock option enabled, you can set special options for the lock screen.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen** → **Lock screen options**.
2. Configure these options:
 - **Shortcuts:** Touch  to control display of app shortcuts at the bottom of the lock screen. Touch **Shortcuts** to choose shortcuts to display: touch and drag a shortcut to a new position, or to the trash can to remove it, and touch **+** to select a new shortcut.
 - **Information ticker:** Set news, stock, or Facebook to display on a ticker on the lock screen.
 - **Clock:** When enabled, the lock screen displays a digital clock.
 - **Dual clock:** Touch  to control display of a dual clock to show the time in two zones when you're traveling. Touch **Dual clock** to set a home city. When you have location services turned on while traveling, the dual clock will display the time in your home city and current location.
 - **Weather:** Touch to control display of the current location's weather on the lock screen.

- **Ripple effect:** When enabled, a ripple effect shows on the lock screen when you touch the screen. If you choose a live wallpaper for the lock screen, ripple effect is disabled.
- **Ink effect:** When enabled, an ink effect shows on the lock screen when you touch the screen. If you choose a live wallpaper for the lock screen, the ripple effect is disabled.
- **Help text:** Touch the check box to control display of tips as you use the lock screen.
- **Camera quick access:** Touch  to control access to the camera from the lock screen using a motion gesture. When enabled, touch and hold on the lock screen, then rotate the device to landscape orientation to launch the Camera. Touch **Camera quick access** to learn more.
- **Wake up in lock screen:** Touch the check box to enable or disable unlocking by spoken wake-up command.
- **Set wake-up command:** Configure wake-up commands, to be used when the Wake up in lock screen option is enabled. You can configure commands to wake up the device, or other popular features.



Popup Note on lock screen

When enabled, a Popup Note appears on the lock screen (when screen lock options other than Swipe or Motion are active).

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Popup Note on lock screen** to enable or disable the setting.

Improve facial recognition



When you have Face screen lock set, you can use the Improve facial recognition setting to improve your device's recognition of your face.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Improve facial recognition** to enable or disable the setting.

Note: The Improve facial recognition setting is only available if you have set a Face screen lock.

Presence check



When you have Face screen lock set, you can choose to have the device prompt you to blink to start facial recognition, to improve security.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Presence check** to enable or disable the setting.

Note: The Presence check setting is only available if you have set a Face screen lock.

Make pattern visible



When you have a Pattern screen lock set, you can choose whether the pattern is visible briefly as you draw it on the lock screen.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Make pattern visible** to enable or disable the setting.

Note: The Make pattern visible setting is only available if you have set a pattern screen lock.

Lock automatically



When you have a screen lock set, you can choose a a time period for automatically locking the screen after the screen turns off, or choose to have the screen lock immediately when the screen turns off.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Lock automatically**, then select an option.

Note: The Lock automatically setting is only available if you have set a screen lock.



Lock instantly with power key

When enabled, pressing the  **Power/Lock Key** locks the screen instantly.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Lock instantly with power key** to enable or disable the option.



Vibrate on screen tap

When enabled, the device vibrates when you touch the lock screen.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen**.
2. Touch **Vibrate on screen tap** to enable or disable the option.

Owner information

Enter text to display on the Lock screen.

1. From the Home screen, touch  **Apps** →  **Settings** → **Lock screen** → **Owner information**.
2. Touch **Show owner info on lock screen** to enable display of Owner information on the Lock screen.
3. Enter Owner information text. For more information about entering text, see see “*Entering Text*” on page 39.

Security

Encryption

As a security measure, you can encrypt the contents of your device or an optional installed memory card (not included), and require a password each time you turn on the device or access the memory card.

Encryption may take an hour or more to complete. Start with a charged battery, and attach the charger until encryption is complete. Loss of power or other interruption may cause the loss of some or all data.


Encrypt device

As a security measure, you can encrypt the contents of your device and require a password to access the contents each time you turn it on.

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Encrypt device** to start encryption. Follow the prompts to complete encryption.

Encrypt external SD card



As a security measure, you can encrypt the contents of an optional installed SD card (not included), and require a password each time you access the card.

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Encrypt external SD card** card to start encryption. Follow the prompts to complete encryption.

SIM card lock

Set up SIM card lock



As a security measure, you can choose to lock the SIM card, and require a PIN to use the device.

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Set up SIM card lock** for these settings:
 - **Lock SIM card:** Enable to require a PIN be entered to use the device, then set the PIN.
 - **Change SIM PIN:** Create a PIN for accessing the SIM card.

Passwords

Make passwords visible

When enabled, password characters display briefly as you enter them.

1. From the Home screen, touch  **Apps →**
 **Settings → Security.**
2. Touch **Make passwords visible** to enable or disable brief displays of password characters.

Device administration



View or disable device administrators. Some applications, such as Corporate email, may require you allow access to your device by device administrators in certain circumstances, such as if your device is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the device is restored to factory settings
- Automatically locking the device.
- Restoring factory settings on the device.



Device administrators

View, add or remove device administrators.

1. From the Home screen, touch  **Apps →**
 **Settings → Security.**
2. Touch **Select device administrators.**

Unknown sources

When enabled, you can install applications from sources other than Google Play®.

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Unknown sources** to enable or disable the option.



Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

Credential storage

Trusted credentials

You can install credentials from an installed memory card, and use the Credential storage settings to allow applications to access the secure certificates and other credentials.



Trusted credentials

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Trusted credentials** to view certificates you've installed.

Install from device storage

Install encrypted certificates from an installed memory card.



Note: You must have installed a memory card containing encrypted certificates to use this feature.

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Install from device storage**, then choose a certificate and follow the prompts to install.

Clear credentials



Clear stored credentials and reset the password.

Note: This setting is only available if you have installed certificates.

1. From the Home screen, touch  **Apps** →  **Settings** → **Security**.
2. Touch **Clear credentials**, then follow the prompts to clear stored credentials and reset the password.

One-handed operation

Configure options to make using your device easier with one hand. When an option is enabled, you can adjust the position of the feature left or right by touching arrows on the screen.



1. From the Home screen, touch  **Apps** →  **Settings** → **One-handed operation**.
2. Configure options:
 - **Keypad & in-call buttons:** When enabled, you can adjust the position of the dialing keypad and in-call buttons.
 - **Samsung keyboard:** When enabled, you can adjust the position of the Samsung keyboard.
 - **Calculator:** When enabled, you can adjust the Calculator's position.
 - **Unlock pattern:** When enabled, you adjust the position of the unlock pattern on the lock screen.

Tip: Touch **Learn about one-handed operation** for help with using this feature.

Language and input



Language

Set the language used by your device's screens.

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Language**.
2. Select a language from the list.

Personal dictionary

Create and manage a list of words for use in text entry, for matching your key touches with words.



- From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Personal dictionary**.

Keyboards and input methods

Configure text entry options to your preferences.

Default



Choose the default method for entering text. From the factory, the default method is Samsung keyboard. If you install other text entry apps, you can set them as default here.

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Default**.
2. Touch an input method.

Google voice typing

Configure Google voice input settings. When you enable Google voice in Settings, it is available for text entry when you touch a text field to enter text.



For more information, see *“Using Google Voice Typing”* on page 41.

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input**.
2. Touch **Google voice typing** to enable it.
3. Touch  beside Google voice typing to configure options:
 - **Choose input languages:** Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
 - **Block offensive words:** When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
 - **Download offline speech recognition:** Install additional speech recognition.


Samsung keyboard

Configure Samsung keypad settings. When you enable Samsung keyboard in Settings, it is available for text entry when you touch a text field to enter text.

For more information, see *“Using Samsung Keyboard”* on page 40.

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input**.
2. **Samsung keyboard** is enabled by default. Touch  to configure options:
 - **Portrait keyboard types:** Choose the default keypad when the screen is in portrait mode, from Qwerty or 3x4 keyboard (similar to a phone keypad).
 - **Input language:** Select languages for the Samsung keyboard.

Tip: When you have more than one language selected, you can slide your finger on the space bar while entering text to switch languages.

- **Predictive text:** Touch  to enable predictive text, to have predictive text suggest words matching your text entries and optionally, complete common words automatically. Touch

Predictive text to configure options:




- **Personalized data:** When enabled, predictive text uses personal language data you have entered to make better predictions. Samsung keyboard can collect all the text you enter, including personal data and credit card numbers, in order to give better prediction results.
- **Learn from Facebook:** Log into Facebook to allow your device to learn from your Facebook postings.
- **Learn from Gmail:** Log into Gmail to allow your device to learn from your Gmail email.
- **Learn from Twitter:** Log into Twitter to allow your device to learn from your Twitter postings.
- **Clear remote data:** Delete your information stored on the personalization server.
- **Clear personalized data:** Remove all personalized data you have entered.
- **Privacy:** Read the privacy policy.

- **Swiftkey flow:** When enabled, you can enter text by sliding your finger across the keyboard.
- **Pen detection:** When enabled, a handwriting pad is automatically displayed when your device detects the S Pen.
- **One-handed operation:** When enabled, Samsung keyboard features can be adjusted right or left for easier use with one hand.
- **Handwriting:**
 - **Input languages:** Choose languages to use with handwriting and Samsung keyboard.
 - **Recognition type:** Choose the type of handwriting recognition, from strokes, or complete letters.
 - **Recognition time:** Choose the length of time the keyboard waits to evaluate handwriting gestures.
 - **Pen thickness:** Choose the size of handwriting strokes on the screen.
 - **Pen color:** Choose the color of handwriting strokes on screen.
 - **Gesture guide:** Learn about gestures you can use while handwriting text.
 - **Tutorial:** Learn about using handwriting.
 - **About:** View information about Samsung keyboard handwriting.

- **Advanced:**

- **Auto-capitalization:** When enabled, predictive text automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.
- **Auto-punctuate:** When enabled, a period and space are automatically entered to end a sentence, when you tap the space bar twice.
- **Character preview:** When enabled, characters available on the key you touch display briefly as you enter text.
- **Key-tap vibration:** When enabled, a vibration plays for your key touches.
- **Key-tap sound:** When enabled, a sound plays for your key touches.
- **Tutorial:** Learn about using Samsung keyboard.
- **Reset settings:** Return Samsung keyboard settings to the defaults.



Swype

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input**.
2. **Swype** is enabled by default. Touch  to configure:
 - **How to Swype:** Learn about using Swype.
 - **Preferences:** Set Swype options:
 - **Vibrate on keypress:** When enabled, the device vibrates for your Swype touches.
 - **Sound on keypress:** When enabled, the device plays sounds for your Swype touches.
 - **Show helpful tips:** When enabled, Swype displays helpful information as you Swype.
 - **Auto-spacing:** When enabled, Swype automatically inserts spaces between words as you complete them.
 - **Auto-capitalization:** When enabled, Swype automatically capitalizes the first word of sentences.
 - **Show complete trace:** When enabled, Swype displays the trace of each word until you start the next word.
 - **Pop-up on keypress:** When enabled, characters display above keys as you enter text.

- **Next word prediction:** When enabled, Swype predicts the next word based on the previous word.
- **Reset Swype's dictionary:** Delete all the words you've added to the Swype dictionary.
- **Version:** View information about Swype.
- **Language options:** Choose the current language for Swype, and download new languages.
- **Swype Connect:** Enable personalization from your accounts, and choose whether to contribute your usage data to improve predictions.
- **Personal dictionary:** View and manage words in your Swype dictionary, used for word completion, suggestion, and spell-checking.
- **Updates:** Check for updates to Swype, and install them if desired.




Speech

Voice search

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Voice search**.
2. Set options:
 - **Language:** Choose a language for voice searching.
 - **Speech output:** Choose options for speech output.
 - **Block offensive words:** When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (#####).
 - **Hotword detection:** When enabled, you can say "Google" to launch voice search.
 - **Download offline speech recognition:** Download speech recognition, to enable voice input while offline.
 - **Personalized recognition:** Enable to have your device improve recognition based on your speech.
 - **Google account dashboard:** View and manage your collected data.



Text-to-speech output

Text-to-speech (TTS) provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Text-to-speech output**.
2. Touch a setting to configure:
 - **Preferred TTS engine**
 - Select **Google Text-to-speech Engine**, or **Samsung TTS**.
 - **General**
 - **Speech rate**: Choose a rate at which text readouts are spoken.
 - **Listen to an example**: Play a sample of speech synthesis.
 - **Driving mode**: When enabled, incoming calls and new notifications are read out automatically. Touch  to enable. Touch **Driving mode** to choose items for readout when Driving mode is enabled.

Mouse/trackpad

Customize the response of your screen swipes.



1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Pointer speed**.
2. Touch and drag along the scale to set the pointer speed.

Back up and reset

Set options for backing up your information and resetting your device.



Back up my data

When enabled, app data, Wi-Fi passwords, and other device settings are backed up to Google servers.

1. From the Home screen, touch  **Apps** →  **Settings** → **Back up and reset**.
2. Touch **Back up my data** to enable or disable back-up.



Backup account

Sign in to a Google account to use for backing up settings.

1. From the Home screen, touch  **Apps** →  **Settings** → **Back up and reset**.
2. Touch **Backup account**, then follow the prompts to sign in to a Google account.



Automatic restore

Use Automatic restore to have previous app settings and data automatically update from the backup when you reinstall the app.

1. From the Home screen, touch  **Apps** →  **Settings** → **Back up and reset**.
2. Touch **Automatic restore** to enable or disable the setting.

Factory data reset

Use Factory data reset to return all settings to the defaults, and remove all data from the device.



1. From the Home screen, touch  **Apps** →  **Settings** → **Back up and reset**.
2. Touch **Factory data reset**, then follow the prompts.

Important! Settings and data erased in a Factory data reset cannot be recovered. To save your settings, you can use Back up my data settings before a reset.

Accounts

Google



Configure options for Google account and privacy settings.

1. From the Home screen, touch  **Apps** →  **Settings** → **Google**.
2. Configure options:
 - **Accounts**: View Google accounts set up on your device, and configure syncing.
 - **Privacy**: Choose Google features, to configure privacy and account settings.

Backup Assistant Plus

Backup AssistantSM Plus is a free service that protects your contacts by saving to a secure web site. If your phone is lost, stolen or damaged, or if you change phones, Backup Assistant can restore your saved contacts to a new phone, wirelessly. Schedule backups to save your information manually or automatically. Log in to your web account for full access to your contacts for viewing, printing, adding, deleting and editing.



Visit <http://verizonwireless.com/baplus>, or contact Verizon Wireless for more information.

- From the Home screen, touch  **Apps** →  **Settings** → **Accounts and sync** → **Backup Assistant**.

Tip: You can also launch Backup Assistant from  **Contacts**. From Contacts, touch  **Menu** → **Backup**.

Add account

Set up an account, to synchronize the account with your device. When an account is set up on your device, you don't have to log in each time you access the account from the device.

1. From the Home screen, touch  **Apps** →  **Settings** → **Add account**.
2. Select an account, then follow the prompts to enter your credentials and set up the account on your device.



System

Motion

Your device recognizes motion, to allow you to navigate and access features by moving the device in specific gestures.

Configure specific motion gestures and settings, to customize your device to your preferences.

For more information about using gestures, see “*Hand Gestures*” on page 29.

1. From the Home screen, touch  **Apps** →  **Settings** → **Motion**.
2. Touch **Motion**  to turn Motion On or Off.
3. Touch **Motion** to configure settings:
 - **Quick glance:** Check key information at a glance while the screen is off, by reaching toward your device.
 - **Direct call:** When enabled, you can lift the device to your ear while viewing a contact to dial the contact's device number.
 - **Smart alert:** When enabled, the device will automatically notify you to missed calls and alerts that occurred while the device was stationary.
 - **Double tap to top:** When enabled, a double tap on the top of the device takes you to the top of the list.



- **Tilt to zoom:** When enabled, tilting the device while in Gallery or Internet causes the screen to zoom in or out.
- **Pan to move icon:** When enabled, moving the device in a panning motion (side-to-side) moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images:** When enabled, moving the device in a panning motion while viewing an image moves focus around in the image.
- **Shake to update:** When enabled, shaking the device starts a new scan for available devices.
- **Turn over to mute/pause:** When enabled, turning the device screen-down automatically mutes incoming call ringtones and alerts sounds.
- **Advanced settings:**
 - **Quick glance:** Choose key information, to display when you have the Quick glance motion enabled. Quick glance must be enabled to configure this advanced setting.
 - **Gyroscope calibration:** Tune the motion detection using your device's internal gyroscope.

- **Tilt to zoom:** Choose the speed at which you tilt to zoom, when you have the Tilt to zoom motion enabled. Tilt to zoom must be enabled to configure this advanced setting.
- **Pan to move icon:** Choose the sensitivity of the device to panning motions, when you have the Pan to move icon motion enabled. Pan to move icon must be enabled to configure this advanced setting.
- **Pan to browse images:** Choose the sensitivity of the device to panning motions, when you have the Pan to browse images motion enabled. Pan to browse images must be enabled to configure this advanced setting.
- **Learn about hand motions:** Get help with understanding motion gestures.
- **Palm swipe to capture:** When enabled, swiping the side of your hand across the screen side-to-side saves a screen shot of the current screen.
- **Palm touch to mute:** When enabled, covering the screen with your hand mutes or pauses media playback.
- **Learn about hand motions:** Get help with understanding the palm swipe and palm touch gestures.

S Pen



Dominant hand

Choose the hand you write with most often, to maximize S Pen performance.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen** → **Dominant hand**.
2. Choose **Left handed** or **Right handed**.



Pen attach/detach sound

Choose a sound to play when you attach or detach S Pen from your device.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Choose a sound, or choose Off for no sound.



Open Popup Note

When enabled, Popup Note launches automatically when you detach S Pen from your device.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Touch **Open Popup Note** to enable or disable the setting.



Battery saving

By default, your device detects when S Pen is detached, and displays the S Pen icon in the Status bar. To save battery power, you can disable this setting.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Touch **Battery saving** to enable or disable the setting.




S Pen keeper

When enabled, your device plays a sound and displays an alert if you walk with the device while S Pen is detached.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Touch **S Pen keeper** to enable or disable the setting.



Air view

When turned On, hovering S Pen near an item on the screen displays information about the item.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Touch **Air view**  to turn the option On or Off.
3. When Air view is on, touch **Air view** for options:
 - **Pointer**: When enabled, a pointer displays on the screen to show S Pen position.
 - **Information preview**: When enabled, hovering over an item displays a preview, full text, or a zoomed-in image.
 - **Icon labels (by pen nib)**: When enabled, hovering over icons on the screen displays their labels.
 - **List scrolling**: When enabled, holding S Pen over the edge of the screen scrolls through a list.



Sound and haptic feedback

When enabled, sound and vibration plays for S Pen actions.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Touch **Sound and haptic feedback** to enable or disable the setting.



Quick Command settings

Use S Pen gestures to open applications or perform tasks. Use preloaded gestures, or create your own combination of symbols, characters, or words.

1. From the Home screen, touch  **Apps** →  **Settings** → **S Pen**.
2. Touch **Quick Command settings** to configure options:
 - **Add a command**: Select an application or function to launch, then configure a gesture by writing your own combination of symbols, characters, or words with S Pen.
 - **Internet search**: Write a question mark (?) with S Pen to launch Internet.
 - **Email**: Write the "at" symbol (@) with S Pen to launch Email.
 - **Maps**: Write an exclamation mark (!) with S Pen to launch Maps.
 - **Call**: Write a pound sign (#) with S Pen to launch Phone.
 - **Messaging**: Write a tilde sign (~) with S Pen to launch Messaging.

S Pen help

Learn about S Pen.

- From the Home screen, touch  **Apps** →  **Settings** → **S Pen** → **S Pen help**.



Accessory

Configure your device's behavior when it is connected to an optional dock (not included).

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessory**.
2. Configure settings:
 - **Dock sound:** When enabled, a sound plays when you insert and remove the device from the dock.
 - **Audio output mode:** When enabled, audio plays through the dock speakers when the device is docked.
 - **Desk home screen display:** When enabled, displays a special screen when the device is docked.
 - **Audio output:** Choose a destination for audio output when you connect to devices using an HDMI cable.

Date and time

By default, your device receives date and time information from the wireless network. When you are outside network coverage, you may want to set date and time information manually using the Date & time settings.

1. From the Home screen, touch  **Apps** →  **Settings** → **Date and time**.
2. Touch a setting to configure:
 - **Automatic date and time:** When enabled, the device takes date and time updates from the wireless network.
 - **Set date:** Enter the current date (only available when Automatic date and time is disabled).
 - **Set time:** Enter the current time (only available when the Automatic setting is disabled).
 - **Automatic time zone:** When enabled, the device takes the time zone from the wireless network.
 - **Select time zone:** Choose your local time zone (only available when the Automatic setting is disabled).
 - **Use 24-hour format:** Set the format for time displays.
 - **Select date format:** Set the format for date displays.



Accessibility

Your device offers features to make using the device easier for those with certain physical disabilities. Use the Accessibility settings to activate these services.

System

Auto-rotate screen



When enabled, the screen's orientation automatically changes when you rotate the device.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **Auto-rotate screen** to turn the feature On or Off.

Tip: You can also set Auto rotate from Notifications with the Screen rotation setting.



Screen timeout

Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility** → **Screen timeout**.
2. Touch a setting to select it.

Lock automatically



When you have a screen lock set, you can choose a time period for automatically locking the screen after the screen turns off, or choose to have the screen lock immediately when the screen turns off.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility** → **Lock automatically**.
2. Touch a setting to select it.

Note: The Lock automatically setting is only available if you have set a screen lock.




Speak passwords

When enabled, you can speak passwords for log-ins.


1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **Speak passwords** to turn the feature On or Off.



Answering/ending calls

You can set options for answering and ending calls.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility** → **Answering/ending calls**.
2. Touch an option to enable or disable it:
 - **Answering key:** When enabled, pressing the **Home Key** answers incoming calls.
 - **The power key ends calls:** When enabled, you can end voice calls by pressing the  **Power/Lock Key**. When this option is enabled, pressing the Power/Lock Key during a call does not lock the screen.



Accessibility shortcut

When enabled, a link to Accessibility settings displays on the Device options menu, when you press and hold the  **Power/Lock Key**. This provides quick access to accessibility settings, to make changes as you use the device.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **Accessibility shortcut** to enable or disable the setting.

Services TalkBack



Enable or disable accessibility services.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **TalkBack** to enable or disable readout of menu options, application titles, contacts, and other items when scrolling and making selections.

Vision



Font size

Set the font size for screen displays.

1. From the Home screen, touch  **Apps** →  **Settings** → **Settings** → **Accessibility** → **Font size**.
2. Select a size.




Negative colors

When enabled, Negative colors reverses the colors on the screen.

1. From the Home screen, touch  **Apps** →  **Settings** → **Settings** → **Accessibility**.
2. Touch **Negative colors** to enable or disable reversal of screen colors.



Text-to-speech output

Text-to-speech (TTS) provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.

1. From the Home screen, touch  **Apps** →  **Settings** → **Language and input** → **Text-to-speech output**.
2. Touch a setting to configure:
 - **Preferred TTS engine**
 - Select **Google Text-to-speech Engine**, or **Samsung TTS**.
 - **General**
 - **Speech rate**: Choose a rate at which text readouts are spoken.
 - **Listen to an example**: Play a sample of speech synthesis.
 - **Driving mode**: When enabled, incoming calls and new notifications are read out automatically. Touch  to enable, then touch **Driving mode** to choose items for readout when Driving mode is enabled.

Enhance web accessibility



When enabled, this service allows apps to install scripts from Google that make their Web content more accessible.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **Install Web scripts**, then follow the prompts to enable or disable the service.

Hearing



Sound balance

Set the balance of audio output to the left and right ear, when using an optional headset or headphones (not included).

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility** → **Sound balance**
2. Drag the slider to set the balance.



Mono audio

When enabled, sound is delivered as mono, to support listening with one earphone.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **Mono audio** to enable or disable the service.

Turn off all sounds



When enabled, all sounds are disabled, including the voice portion of calls.

1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility**.
2. Touch **Turn off all sounds** to enable or disable the service.

Mobility

Tap and hold delay

Set the length of time the device considers a screen touch before interpreting a touch as touch-and-hold.




1. From the Home screen, touch  **Apps** →  **Settings** → **Accessibility** → **Tap and hold delay**.
2. Touch a setting to select it.

Developer options

Set options for use when developing apps for devices.



Important! These settings are intended for development use only. They can cause errors to occur on your device and with the applications on it.

Turning Developer options On or Off

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Touch **Developer options**  to turn the setting On or Off.

Desktop backup password

Set a password for protecting full desktop backups.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Touch **Desktop backup password**, then enter the current and new passwords. Touch **Set backup password** to save your settings.



Stay awake

When enabled, the screen will never sleep while charging.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Touch **Stay awake** to enable or disable the setting.



Protect SD card

When enabled, apps must request permission to read an installed optional SD card (not included).

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Touch **Protect SD card** to enable or disable the setting.



Debugging

Enable or disable debugging options.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Configure options:
 - **USB debugging:** When enabled, connecting your device to a computer with a USB data cable launches debugging mode.
 - **Allow mock locations:** When enabled, mock locations are allowed during debugging.
 - **Select app to be debugged:** Choose an app to be debugged when device is in debugging mode.
 - **Wait for debugger:** When enabled, a device to be debugged waits for the debugger to be attached.



Input

Configure options for input.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Configure options:
 - **Show touches:** When enabled, screen touches cause the screen to display visual feedback.
 - **Show pointer location:** When enabled, the current pointer location shows on a screen overlay.



Drawing

Configure options for drawing screens.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Configure options:
 - **Show layout boundaries:** When enabled, clip boundaries, margins, and other layout details display.
 - **Show GPU view updates:** When enabled, views are flashed inside windows when they are drawn with the GPU.
 - **Show screen updates:** When enabled, areas of the screen flash as they update.
 - **Window animation scale:** Choose a scale for window animations.
 - **Transition animation scale:** Choose a scale for screen transitions.
 - **Animator duration scale:** Choose a scale for animators.
 - **Disable hardware overlays:** When enabled, the GPU is always used for screen compositing.
 - **Force GPU rendering:** When enabled, 2D hardware acceleration is used in applications.

Monitoring

Configure options for monitoring apps.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Configure options:
 - **Strict mode:** When enabled, the screen flashes while apps perform long operations.
 - **Show CPU usage:** When enabled CPU usage displays on a screen overlay.
 - **GPU rendering profile:** When enabled, rendering time is measured in adb shell `dumpsys gfxinfo`.
 - **Enable traces:** Choose traces.



Apps

Configure app options.

1. From the Home screen, touch  **Apps** →  **Settings** → **Developer options**.
2. Configure options:
 - **Do not keep activities:** When enabled, activities are destroyed as soon as the user leaves them.
 - **Limit background processes:** Choose options for processes running in the background.
 - **Show all ANRs:** When enabled, an App Not Responding dialog displays for apps running in the background.

About phone

View information about your device, including status, legal information, hardware and software versions, and a tutorial.

1. From the Home screen, touch  **Apps** →  **Settings** → **About phone**.
2. Touch items to view details:
 - **Software update:** Check availability and install updates.
 - **Status:** View information about your device's current status.
 - **Legal information:** Display open source licenses, configure license settings, including your DivX® VOD registration, and Google info.
 - **Model number:** View your device's model number.
 - **Android version:** View the firmware version of your device.
 - **Baseband version:** View the baseband version of your device.
 - **Kernel version:** View the kernel version of your device.
 - **Build number:** View the build number of your device.
 - **Hardware version:** View the hardware version of your device.

Section 9: Health and Safety Information

This device is capable of operating in Wi-Fi™ mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with Mobile Satellite Services (MSS). Therefore, this device is restricted from being used outdoors when operating in frequencies between 5.15-5.25 GHz.

This section outlines the safety precautions associated with using your phone. The terms “mobile device” or “cell phone” are used in this section to refer to your phone. **Read this information before using your mobile device.**

Exposure to Radio Frequency (RF) Signals

The U.S. Food and Drug Administration (FDA) has published information for consumers relating to Radio Frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

Do cell phones pose a health hazard?

Many people are concerned that cell phone radiation will cause cancer or other serious health hazards. The weight of scientific evidence has not linked cell phones with any health problems.

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

The low levels of RF cell phones emit while in use are in the microwave frequency range. They also emit RF at substantially reduced time intervals 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.

The biological effects of radio frequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays, can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues including DNA, the genetic material.

The energy levels associated with radio frequency energy, including both radio waves and microwaves, are not great enough to cause ionization of atoms and molecules. Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat), and other forms of electromagnetic radiation with relatively low frequencies.

While RF energy does not ionize particles, large amounts can increase body temperatures and cause tissue damage. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

Research Results to Date: Is there a connection between RF and certain health problems?

The results of most studies conducted to date say no. In addition, attempts to replicate and confirm the few studies that have shown a connection have failed.

The scientific community at large therefore believes that the weight of scientific evidence does not show an association between exposure to Radio Frequency (RF) from cell phones and adverse health outcomes. Still the scientific community has supported additional research to address gaps in knowledge. Some of these studies are described below.

Interphone Study

Interphone is a large international study designed to determine whether cell phones increase the risk of head and neck cancer. A report published in the International Journal of Epidemiology (June, 2010) compared cell phone usage for more than 5,000 people with brain tumors (glioma and meningioma) and a similar number of healthy controls.

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a

slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at

http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf.

Interphone is the largest cell phone study to date, but it did not answer all questions about cell phone safety. Additional research is being conducted around the world, and the FDA continues to monitor developments in this field.

International Cohort Study on Mobile Phone Users (COSMOS)

The COSMOS study aims to conduct long-term health monitoring of a large group of people to determine if there are any health issues linked to long-term exposure to radio frequency energy from cell phone use. The COSMOS study will follow approximately 300,000 adult cell phone users in Europe for 20 to 30 years. Additional information about the COSMOS study can be found at

<http://www.ukcosmos.org/index.html>.

Risk of Brain Cancer from Exposure to Radio Frequency Fields in Childhood and Adolescence (MOBI-KIDS)

MOBI-KIDS is an international study investigating the relationship between exposure to radio frequency energy from communication technologies including cell phones and brain cancer in young people. This is an international multi-center study involving 14 European and non-European countries. Additional information about MOBI-KIDS can be found at

http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39.

Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute

The National Cancer Institute (NCI) actively follows cancer statistics in the United States to detect any change in rates of new cases for brain cancer. If cell phones play a role in risk for brain cancer, rates should go up, because heavy cell phone use has been common for quite some time in the U.S. Between 1987 and 2005, the overall age-adjusted incidence of brain cancer did not increase. Additional information about SEER can be found at

<http://seer.cancer.gov/>.

Cell Phone Industry Actions

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

- Support-needed research on possible biological effects of RF for the type of signal emitted by cell phones;
- Design cell phones in a way that minimizes any RF exposure to the user; and
- Cooperate in providing users of cell phones with the current information on cell phone use and human health concerns.

The FDA also is working with voluntary standard-setting bodies such as the Institute of Electrical and Electronics Engineers (IEEE), the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and others to assure that safety standards continue to adequately protect the public.

Reducing Exposure: Hands-Free Kits and Other Accessories

Steps to Reduce Exposure to Radio Frequency Energy

If there is a risk from being exposed to radio frequency energy (RF) from cell phones - 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 RF exposure.

- Reduce the amount of time spent using your cell phone;
- Use speaker mode or a headset to place more distance between your head and the cell phone.

Hands-Free Kits

Hands-free kits may include audio or Bluetooth® headsets and various types of body-worn accessories such as belt-clips and holsters. Combinations of these can be used to reduce RF energy absorption from cell phones.

Headsets can substantially reduce exposure because the phone is held away from the head in the user's hand or in approved body-worn accessories. Cell phones marketed in the U.S. are required to meet RF exposure compliance requirements when used against the head and against the body.

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used for convenience and comfort. They are also required by law in many states if you want to use your phone while driving.

Cell Phone Accessories that Claim to Shield the Head from RF Radiation

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that accessories which claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike “hands-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption.

Children and Cell Phones

The scientific evidence does not show a danger to any users of cell phones from RF exposure, including children and teenagers. The steps adults can take to reduce RF exposure apply to children and teenagers as well.

- Reduce the amount of time spent on the cell phone;
- Use speaker mode or a headset to place more distance between the head and the cell phone.

Some groups sponsored by other national governments have advised that children be discouraged from using cell phones at all. For example, The Stewart Report from the United Kingdom made such a recommendation in December 2000. In this report, a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. Their recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (updated 10/1/2010):

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>.

- Environmental Protection Agency (EPA):
<http://www.epa.gov/radtown/wireless-tech.html>.
- Occupational Safety and Health Administration (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/>.
(Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/>.
- World Health Organization (WHO):
<http://www.who.int/peh-emf/en/>.
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>.
- Health Protection Agency:
<http://www.hpa.org.uk/Topics/Radiation/>.
- US Food and Drug Administration:
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>.

Specific Absorption Rate (SAR) Certification Information

Your wireless phone 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 RF exposure limits are derived from the recommendations of two expert organizations: the National Council 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 RF exposure limit set by the FCC for wireless mobile phones 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 phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC SAR 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 phone 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 phone while operating can be well below the maximum reported value. This is because the phone 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 of the phone.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the SAR limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body-worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

This [mobile phone/tablet/device] has a FCC ID number: A3LSMW750V [Model Number: SM-W750V] and the specific SAR levels for this mobile phone can be found at the following FCC website:

<http://www.fcc.gov/oet/ea/>.

The SAR information for this device can also be found on Samsung's website:

<http://www.samsung.com/sar>.

SAR information on this and other model phones can be accessed online on the FCC's website through <http://transition.fcc.gov/oet/rfsafety/sar.html>. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional

SAR information can also be obtained at <http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones>.

FCC Part 15 Information to User

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by Samsung could void your authority to operate the device.

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Commercial Mobile Alerting System (CMAS)

This device is designed to receive Wireless Emergency Alerts from CMAS. If your wireless provider has chosen to participate in CMAS, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

Smart Practices While Driving

On the Road - Off the Phone

The primary responsibility of every driver is the safe operation of his or her vehicle.

Responsible drivers understand that no secondary task should be performed while driving whether it be eating, drinking, talking to passengers, or talking on a mobile phone - unless the driver has assessed the driving conditions and is confident that the secondary task will not interfere with their primary responsibility. **Do not engage in any activity while driving a moving vehicle which may cause you to take your eyes off the road or become so absorbed in the activity that your ability to concentrate on the act of driving becomes impaired.** Samsung is committed to promoting responsible driving and giving drivers the tools they need to understand and address distractions.

Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. For example, only hands-free use may be permitted in certain areas.

Before answering calls, consider your circumstances. Let the call go to voicemail when driving conditions require. Remember, driving comes first, not the call!

If you consider a call necessary and appropriate, follow these tips:

- Use a hands-free device;
- Secure your phone within easy reach;
- Place calls when you are not moving;
- Plan calls when your car will be stationary;
- Do not engage in stressful or emotional conversations;
- Let the person with whom you are speaking know that you are driving and will suspend the call if necessary;
- Do not take notes or look up phone numbers while driving;

Notice regarding legal restrictions on mounting this device in an automobile:

Laws in some states may prohibit mounting this device on or near the windshield of an automobile. In other states, the law may permit mounting this device only in specific locations in the automobile. Be sure to consult the state and local laws or ordinances where you drive before mounting this device in an automobile. Failure to comply with these restrictions could result in fines, penalties, or other damages.

Never mount this device in a manner that will obstruct the driver's clear view of the street and traffic.

Never use wireless data services such as text messaging, Web browsing, or e-mail while operating a vehicle.

Never watch videos, such as a movie or clip, or play video games while operating a vehicle.

For more information, go to <http://www.ctia.org>.

Battery Use and Safety

Important! Handle and store batteries properly to avoid injury or damage. Most battery issues arise from improper handling of batteries and, particularly, from the continued use of damaged batteries.

- **Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.** Do not put a high degree of pressure on the battery. This can cause leakage or an internal short-circuit, resulting in overheating.

- **Do not let the phone or battery come in contact with liquids.** Liquids can get into the phone's circuits, leading to corrosion. Even when the phone appears to be dry and appears to operate normally, the circuitry could slowly corrode and pose a safety hazard. If the phone and/or battery get wet, have them checked by your service provider or contact Samsung, even if they appear to be working properly.
- **Do not place your battery in or near a heat source.** Excessive heating can damage the phone or the battery and could cause the phone or the battery to explode. Do not dry a wet or damp battery with an appliance or heat source such as a microwave oven, hair dryer, iron, or radiator. Avoid leaving your phone in your car in high temperatures.
- **Do not dispose of the phone or the battery in a fire.** The phone or the battery may explode when overheated.
- **Do not handle a damaged or leaking battery.** Do not let leaking battery fluid come in contact with your eyes, skin or clothing. For safe disposal options, contact your nearest Samsung-authorized service center.

- **Avoid dropping the cell phone.** Dropping the phone or the battery, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- **Never use any charger or battery that is damaged in any way.**
- **Do not allow the battery to touch metal objects.** Accidental short-circuiting can occur when a metallic object (coin, key, jewelry, 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.

Important! Use only Samsung-approved batteries, and recharge your battery only with Samsung-approved chargers which are specifically designed for your phone.

WARNING!

Use of a non-Samsung-approved battery or charger may present a risk of fire, explosion, leakage, or other hazard. Samsung's warranty does not cover damage to the phone caused by non-Samsung-approved batteries and/or chargers.

- **Do not use incompatible cell phone batteries and chargers.**

Some websites and second-hand dealers not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier-recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.

- **Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, or leakage, leading to serious injuries, damages to your phone, or other serious hazard.**

Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile devices and genuine Samsung accessories.

Proper disposal of your mobile device and its battery is not only important for safety, it benefits the environment. Batteries must be recycled or disposed of properly.

Recycling programs for your mobile device, batteries, and accessories may not be available in your area.

We've made it easy for you to recycle your old Samsung mobile device by working with respected take-back companies in every state in the country.

Drop It Off

You can drop off your Samsung-branded mobile device and batteries for recycling at one of our numerous Samsung Recycling Direct (SM) locations. A list of these locations may be found at:

http://pages.samsung.com/us/recyclingdirect/usactivities_environment_samsungrecyclingdirect_locations.jsp

Samsung-branded devices and batteries will be accepted at these locations for no fee.

Consumers may also recycle their used mobile device or batteries at many retail or carrier-provided locations where mobile devices and batteries are sold. Additional information regarding specific locations may be found at:

<http://www.epa.gov/epawaste/partnerships/plugin/cellphone/index.htm> or at <http://www.call2recycle.org/>.

Mail It In

The Samsung Mobile Take-Back Program will provide Samsung customers with a free recycling mailing label.

Just go to

<http://fun.samsungmobileusa.com/recycling/index.jsp>.

Dispose of unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect

Or call, (877) 278-0799.

Follow local regulations regarding disposal of mobile devices and batteries

Dispose of your mobile device and batteries in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited. Help us protect the environment - recycle!

Warning! Never dispose of batteries in a fire because they may explode.

UL Certified Travel Charger

The Travel Charger for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines:

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Display / Touch-Screen

Please note the following information when using your mobile device:

WARNING REGARDING DISPLAY

The display on your mobile device is made of glass or acrylic and could break if your mobile device is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

WARRANTY DISCLAIMER: PROPER USE OF A TOUCH-SCREEN MOBILE DEVICE

If your mobile device has a touch-screen display, please note that a touch-screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch-screen may damage the tempered glass surface and void the warranty. For more information, please refer to the “Standard Limited Warranty”.

GPS

Certain Samsung mobile devices can use a Global Positioning System (GPS) signal for location-based applications. A GPS uses satellites controlled by the U.S. Government that are subject to changes implemented in accordance with the Department of Defense policy and the 2008 Federal Radio navigation Plan (FRP). Changes may affect the performance of location-based technology on your mobile device.

Even with GPS, when you make an emergency call:

- Always tell the emergency responder your location to the best of your ability; and

- Remain on the mobile device for as long as the emergency responder instructs you.

Navigation

Maps, directions, and other navigation-data, including data relating to your current location, may contain inaccurate or incomplete data, and circumstances can and do change over time. In some areas, complete information may not be available. **Therefore, you should always visually confirm that the navigational instructions are consistent with what you see before following them. All users should pay attention to road conditions, closures, traffic, and all other factors that may impact safe driving or walking. Always obey posted road signs.**

Emergency Calls



This mobile device, like any wireless mobile device, operates using radio signals, wireless and landline networks, as well as user-programmed functions, which cannot guarantee connection in all conditions, areas, or circumstances.

Therefore, you should never rely solely on any wireless mobile device for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel. Remember, to

make or receive any calls, the mobile device must be switched on and in a service area with adequate signal strength.

Emergency calls may not be possible on all wireless mobile device networks or when certain network services and/or mobile device features are in use. Check with local service providers.

To make an emergency call:

1. If the mobile device is not on, switch it on.
2. From the Home screen, touch  **Phone**.
3. Key in the emergency number for your present location (for example, 911 or other official emergency number).
Emergency numbers vary by location.
4. Press the “Send” key .

If certain features are in use (call blocking, for example), you may first need to deactivate those features before you can make an emergency call. Consult your User Manual 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 mobile 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.

Care and Maintenance

Your mobile 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 Samsung Mobile Device away from:

Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.

Do not use the mobile device with a wet hand. Doing so may cause an electric shock to you or damage to the mobile device.

Extreme heat or cold

Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

Microwaves

Do not try to dry your mobile device in a microwave oven. Doing so may cause a fire or explosion.

Dust and dirt

Do not expose your mobile device to dust, dirt, or sand.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

Shock or vibration

Do not drop, knock, or shake the mobile device. Rough handling can break internal circuit boards.

Paint

Do not paint the mobile device. Paint can clog the device's moving parts or ventilation openings and prevent proper operation.

Responsible Listening

Caution! Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations. Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cell phones, at high volume settings for long durations may lead to permanent noise-induced hearing loss.

This includes the use of headphones (including headsets, earbuds, and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound, and distorted hearing. Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones

that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings, and equipment.

You should follow some common sense recommendations when using any portable audio device:

- Always turn the volume down before plugging the earphones into an audio source.
- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- Be aware that you can adapt to higher volume settings over time, not realizing that the higher volume may be harmful to your hearing.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.

- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech, or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology

11730 Plaza American Drive, Suite 300
Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet:

<http://www.audiology.org/Pages/default.aspx>

**National Institute on Deafness and Other
Communication Disorders**

National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD 20892-2320
Email: nidcdinfo@nih.gov

Internet:
<http://www.nidcd.nih.gov/>

**National Institute for Occupational Safety
and Health (NIOSH)**

395 E Street, S.W., Suite 9200
Patriots Plaza Building
Washington, DC 20201
Voice: 1-800-35-NIOSH
(1-800-356-4674)
1-800-CDC-INFO (1-800-232-4636)
Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet:
[http://www.cdc.gov/niosh/topics/noise/
default.html](http://www.cdc.gov/niosh/topics/noise/default.html)

1-888-232-6348 TTY

Operating Environment

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

Using Your Mobile 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 mobile device. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless mobile device and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the mobile device more than six (6) inches from their implantable medical device when the mobile device is turned ON;
- Should not carry the mobile device in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the mobile device OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless mobile device with an implantable medical device, consult your health care provider.

For more information see: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html#>.

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 mobile 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 before using your mobile device in a motor vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Potentially Explosive Environments

Switch your mobile 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 mobile 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 below deck 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. 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.

When your Device is Wet

Do not turn on your device if it is wet. If your device is already on, turn it off and remove the battery immediately (if the device will not turn off or you cannot remove the battery, leave it as-is). Then, dry the device with a towel and take it to a service center.

FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other assistive hearing devices.

When individuals employing some assistive hearing devices (hearing aids and cochlear implants) use wireless mobile devices, they may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and mobile devices also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless mobile devices to assist hearing device users find mobile devices that may be compatible with their hearing devices. Not all mobile devices have been rated. Mobile devices that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not

be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Wireless mobile devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. M4 is the better/higher of the two ratings. M-ratings refer to enabling acoustic coupling with hearing aids that do not operate in telecoil mode.

T-Ratings: Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

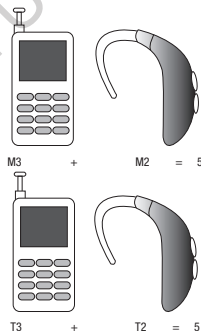
Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a

hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

Under the standard, this should provide the hearing aid user with normal use while using the hearing aid with the particular wireless mobile device. A sum of 6 or more would indicate excellent performance.

However, these are not guarantees that all users will be satisfied. T ratings work similarly.



The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

HAC for Newer Technologies

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

Restricting Children's Access to Your Mobile Device

Your mobile device is not a toy. Do not allow children to play with it because they could hurt themselves and others, damage the mobile device, or make calls that increase your mobile device bill.

Keep the mobile device and all its parts and accessories out of the reach of small children.

FCC Notice and Cautions

FCC Notice

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

Cautions

Any changes or modifications to your mobile device not expressly approved by Samsung could void your warranty for this equipment and void your authority to operate this equipment. Only use approved batteries, antennas, and chargers. The use of any unauthorized accessories may be dangerous and void the mobile device warranty if said accessories cause damage or a defect to the mobile device.

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

Other Important Safety Information

- Only qualified personnel should service the mobile device or install the mobile device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Check regularly that all wireless mobile device equipment in your vehicle is mounted and operating properly.
- When using a headset in dry environments, static electricity can build up in the headset and cause a small quick static electrical shock. To minimize the risk of electrostatic discharge from the headset avoid using the headset in extremely dry environments or touch a grounded unpainted metal object to discharge static electricity before inserting the headset.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the mobile 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 installed or portable wireless equipment near or 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 your mobile device off before boarding an aircraft. The use of wireless mobile devices in aircraft is illegal and may be dangerous to the aircraft's operation. Check with appropriate authorities before using any function of a mobile device while on an aircraft.
- Failure to observe these instructions may lead to the suspension or denial of cell phone services to the offender, or legal action, or both.
- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing games for extended periods. If you feel any discomfort, stop using the device immediately.

- Reduce risk of repetitive motion injuries. When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop use and see a physician.
- If your device has a camera flash or light, do not use the flash or light close to the eyes of people or pets. [122011]

Section 10: Warranty Information

Standard Limited Warranty

What is covered and for how long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC (“SAMSUNG”) warrants that SAMSUNG’s handsets and accessories (“Products”) are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase by the first consumer purchaser and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Case/Pouch/Holster	90 Days
Other Phone Accessories	1 Year

What is not covered?

This Limited Warranty is conditioned upon proper use of the Product.

This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abnormal use, abnormal conditions, improper storage, exposure to liquid, moisture, dampness, sand or dirt, neglect, or unusual physical, electrical or electromechanical stress; (b) scratches, dents and cosmetic damage, unless caused by SAMSUNG; (c) defects or damage resulting from excessive force or use of a metallic object when pressing on a touch screen; (d) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (e) ordinary wear and tear; (f) defects or damage resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (g) defects or damage resulting from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (h) defects or damage resulting from external causes such as collision with an object, fire, flooding, dirt, windstorm, lightning, earthquake, exposure to weather conditions, theft, blown fuse, or improper use of any electrical source; (i) defects or damage resulting from cellular signal reception

or transmission, or viruses or other software problems introduced into the Product; or (j) Product used or purchased outside the United States. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery; (ii) any of the seals on the battery are broken or show evidence of tampering; or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's obligations?

During the applicable warranty period, provided the Product is returned in accordance with the terms of this Limited Warranty, SAMSUNG will repair or replace the Product, at SAMSUNG's sole option, without charge. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product, or may replace the Product with a rebuilt, reconditioned or new Product.

Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Products will be warranted for a period equal to the

remainder of the original Limited Warranty on the original Product or for ninety (90) days, whichever is longer. All replaced Products, parts, components, boards and equipment shall become the property of SAMSUNG. Except to any extent expressly allowed by applicable law, transfer or assignment of this Limited Warranty is prohibited.

What must you do to obtain warranty service?

To obtain service under this Limited Warranty, you must return the Product to an authorized phone service facility in an adequate container for shipping, accompanied by the sales receipt or comparable proof of sale showing the original date of purchase, the serial number of the Product and the seller's name and address.

To obtain assistance on where to deliver the Product, please call SAMSUNG Customer Care at 1-888-987-4357. If SAMSUNG determines that any Product is not covered by this Limited Warranty, you must pay all parts, shipping, and labor charges for the repair or return of such Product.

You should keep a separate backup copy of any contents of the Product before delivering the Product to SAMSUNG for warranty service, as some or all of the contents may be deleted or reformatted during the course of warranty service.

What are the limits on SAMSUNG's liability?

THIS LIMITED WARRANTY SETS OUT THE FULL EXTENT OF SAMSUNG'S RESPONSIBILITIES, AND THE EXCLUSIVE REMEDY REGARDING THE PRODUCTS.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SAMSUNG BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR FOR, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY SORT; LOSS OF USE, TIME, DATA, REPUTATION, OPPORTUNITY, GOODWILL, PROFITS OR SAVINGS; INCONVENIENCE; INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES; OR DAMAGES ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT. SOME STATES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE DISCLAIMER OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND DISCLAIMERS MAY NOT APPLY TO YOU.

SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE

OR SUITABILITY OF ANY THIRD-PARTY SOFTWARE OR EQUIPMENT USED IN CONJUNCTION WITH THE PRODUCT, OR THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE. RESPONSIBILITY FOR THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT RESTS SOLELY WITH THE USER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT.

Nothing in the Product instructions or information shall be construed to create an express warranty of any kind with respect to the Products. No agent, employee, dealer, representative or reseller is authorized to modify or extend this Limited Warranty or to make binding representations or claims, whether in advertising, presentations or otherwise, on behalf of SAMSUNG regarding the Products or this Limited Warranty.

This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

What is the procedure for resolving disputes?

ALL DISPUTES WITH SAMSUNG ARISING IN ANY WAY FROM THIS LIMITED WARRANTY OR THE SALE, CONDITION OR PERFORMANCE OF THE PRODUCTS SHALL BE RESOLVED EXCLUSIVELY THROUGH FINAL AND BINDING ARBITRATION, AND NOT BY A COURT OR JURY.

Any such dispute shall not be combined or consolidated with a dispute involving any other person's or entity's Product or claim, and specifically, without limitation of the foregoing, shall not under any circumstances proceed as part of a class action. The arbitration shall be conducted before a single arbitrator, whose award may not exceed, in form or amount, the relief allowed by the applicable law. The arbitration shall be conducted according to the American Arbitration Association (AAA) Commercial Arbitration Rules applicable to consumer disputes. This arbitration provision is entered pursuant to the Federal Arbitration Act. The laws of the State of Texas, without reference to its choice of laws principles, shall govern the interpretation of the Limited Warranty and all disputes that are subject to this arbitration provision. The arbitrator shall decide all issues of interpretation and application of this arbitration provision and the Limited Warranty.

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are \$5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant SAMSUNG its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or \$50.00 of such fees, whichever is less, and SAMSUNG shall pay the remainder of such fees.

Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees, exceed \$5,000.00 ("Large Claim") shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction.

This arbitration provision also applies to claims against SAMSUNG's employees, representatives and affiliates if any such claim arises from the Product's sale, condition or performance.

You may opt out of this dispute resolution procedure by providing notice to SAMSUNG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product. To opt out, you must send notice by e-mail to optout@sta.samsung.com, with the subject line: "Arbitration Opt Out." You must include in the opt out e-mail (a) your name and address; (b) the date on which the Product was purchased; (c) the Product model name or model number; and (d) the IMEI or MEID or Serial Number, as applicable, if you have it (the IMEI or MEID or Serial Number can be found (i) on the Product box; (ii) on the Product information screen, which can be found under "Settings;" (iii) on a label on the back of the Product beneath the battery, if the battery is removable; and (iv) on the outside of the Product if the battery is not removable). Alternatively, you may opt out by calling 1-888-987-4357 no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product and providing the same information. These are the only two forms of notice that will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the benefits of the Limited Warranty.

Severability

If any portion of this Limited Warranty is held to be illegal or unenforceable, such partial illegality or unenforceability shall not affect the enforceability of the remainder of the Limited Warranty.

Precautions for Transfer and Disposal

If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

Important! Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

Samsung Telecommunications America, LLC
1301 E. Lookout Drive
Richardson, Texas 75082
Phone: 1-800-SAMSUNG
Phone: 1-888-987-HELP (4357)

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End User License Agreement for Software

IMPORTANT. READ CAREFULLY: This End User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Samsung Electronics Co., Ltd. ("Samsung") for software, owned by Samsung and its affiliated companies and its third party suppliers and licensors, that accompanies this EULA, which includes computer software and may include associated media, printed materials, "online" or electronic documentation in connection with your use of this device ("Software").

This device requires the use of preloaded software in its normal operation. BY USING THE DEVICE OR ITS PRELOADED SOFTWARE, YOU ACCEPT THE TERMS OF THIS EULA. IF YOU DO NOT ACCEPT THESE TERMS, **DO NOT USE** THE DEVICE OR THE SOFTWARE.

1. **GRANT OF LICENSE.** Samsung grants you the following rights provided that you comply with all terms and conditions of this EULA: You may install, use, access, display and run one copy of the Software on the local hard disk(s) or other permanent storage media of one computer and use the Software on a single computer or a mobile device at a time, and you may not make the Software available over a network where it could be used by multiple computers at the same time. You may make one copy of the Software in machine readable form for backup purposes only; provided that the backup copy must include all copyright or other proprietary notices contained on the original.

Certain items of the Software may be subject to open source licenses. The open source license provisions may override some of the terms of this EULA. We make the applicable open source licenses available to you on the Legal Notices section of the Settings menu of your device.

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