NEC

NEC Terrain™

User Guide



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1. Get Started

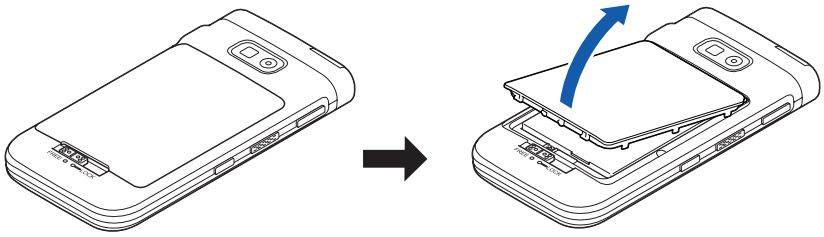
This section explains how to start using your phone by first configuring your hardware, activating your service, setting up your voice mail and understanding the waterproof features of your phone.

SET UP YOUR PHONE

Prior to use it is necessary to install both the battery and SIM card into their corresponding internal compartments. The microSD™ card slot is also located in this same internal area.

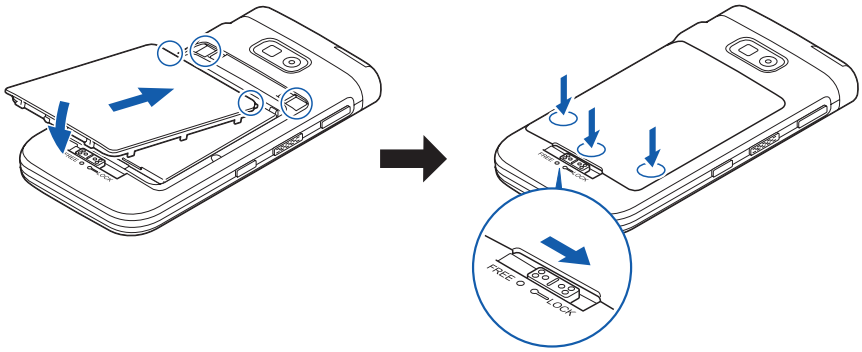
Open Your Phone

1. Slide latch to the left to unlock.
2. Insert a fingernail into the gap between latch and cover, and then pull up on the back cover as shown below.



Close Your Phone

1. Insert the tabs at the end of the cover at a 40° angle and then press the bottom portion of the cover down.
2. Ensure the cover is completely seated and re-sealed. Then slide the latch to the right in order to lock it.

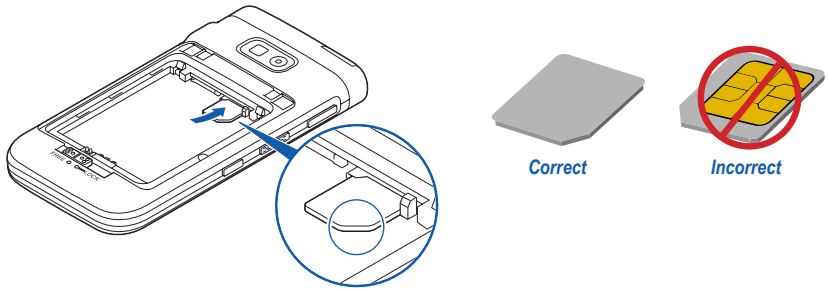


Important! Do not bend, twist or press the cover excessively. Doing so may damage the cover. If there is resistance when placing the cover, ensure the battery has been placed properly.

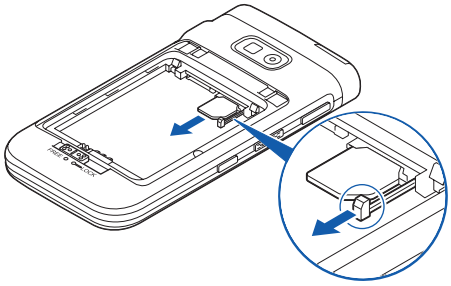
Install the SIM Card

When you subscribe to cellular carrier service, you are provided a SIM card loaded with your subscription details, such as your PIN, available optional services, and many other features.

1. Carefully slide the SIM card into the SIM card slot (shown below) until the card locks into place.
    - Make sure that the card's gold contacts face into the phone and that the lower-right angled corner of the card is positioned as shown.



2. To remove the SIM card, pull the small tab to the right of the card (shown below), then gently remove the card from slot.

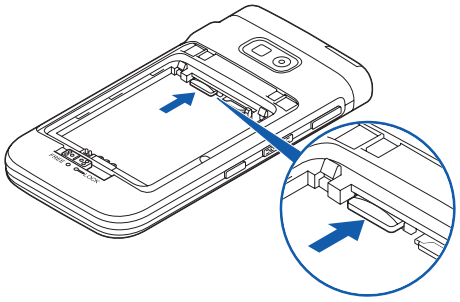


Important! The SIM card information and its contacts can be easily damaged by scratching or bending, be careful when handling, inserting, or removing the card. Keep all SIM cards out of reach of small children.

Install a MicroSD Card

This product supports a microSD card (not included), which is used for media content. This type of card can be also used as a portable memory card with other compatible devices.

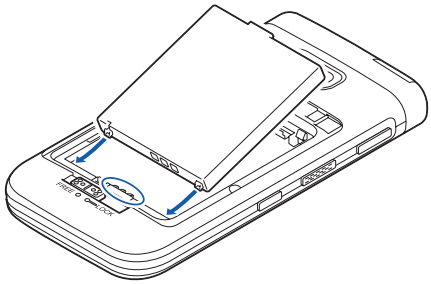
1. Insert the microSD card into its slot on the left side, with gold colored contacts facing down.



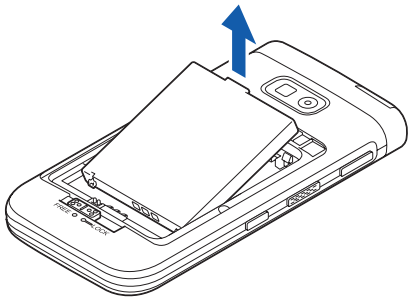
Note: Your phone has been tested to support up to a 32GB memory card.

Install the Battery

1. To install / replace the battery, insert the bottom of the battery first, ensuring the gold contacts are connected and then press the top side down securely.

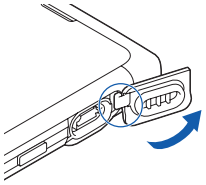


2. To remove the battery, lift the top side up as shown below.



MicroUSB Port Cover

1. With the screen facing upwards, insert a fingernail into the gap between the screen and the microUSB port cover. Pull the microUSB port cover in an outward direction to reveal the microUSB port.

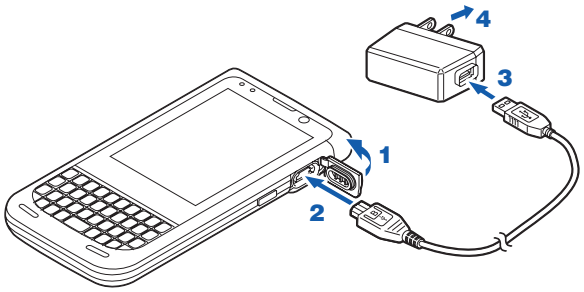


2. To close microUSB port cover, push the upper side of cover back into the recess and then press the lower side down securely.

CHARGE THE BATTERY

Use the Wall Charger

Your device is powered by a rechargeable Li-ion battery. The USB cable required to charge the battery, is included with your device. Use only NEC approved batteries and chargers.

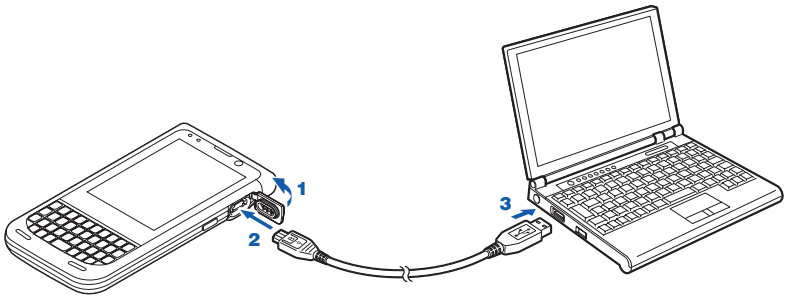


1. Open the microUSB port cover.
2. Connect the microUSB end of the supplied cable with the USB symbol facing up.
3. Connect the USB end of the cable to the wall charger (included).
4. Plug the wall charger into a standard AC wall outlet.
5. When charging has completed, remove the cable from the microUSB port and replace cover securely.

You can continue to use the phone while the battery is charging, however keep in mind this will require additional charging time.

Note: When connecting to the microUSB port of this product, hold the microUSB plug straight against the port without tilting it vertically or horizontally and insert it gently.

Use a PC



1. Open the microUSB port cover.
2. Connect the microUSB plug of the supplied microUSB cable with engraved side facing up to the microUSB port.
3. Connect the USB plug of the cable to your PC.

Connect a PC

You can read and write data on a microSD card from the connected PC, as well as synchronize with the PC or select files to copy and/or backup.

1. Connect to a PC using the microUSB cable.
2. Open the Notifications panel, tap **USB connected**.
3. Tap **Turn on USB storage ► OK**.

Disconnect the microUSB cable from the PC

1. Open the Notifications panel, tap **Turn off USB storage**.
2. Tap **Turn off USB storage**. Then you can disconnect the microUSB cable from the PC.

Note: Connect the USB plug of the microUSB cable for PC connection directly to the USB port of the PC. If the cable is connected via a USB hub or USB extension cable, a malfunction may occur.

Low Battery Indicator

When the battery is weak and only a few minutes of talk time remain, the battery icon will appear and a **Connect Charger** message will appear.

At this point, your phone begins to conserve the remaining battery power by entering the dimming mode.

For a quick check of your battery level, glance at the battery charge indicator located in the upper-right corner of your device's display. Solid color indicates a full charge.

When the battery level becomes too low, the phone automatically turns off.

Note: Long backlight settings, searching for service, vibrate mode, web browser use, and other variables may reduce the battery's talk and standby times.

POWER PHONE ON AND OFF

To turn on the phone

Press and hold down the power key until the phone vibrates.

To turn off the phone

1. Press and hold the power key until the phone vibrates and the option screen appears.
2. Select **Power off**.
3. Tap **OK**.



Sleep mode

When the power key is pressed once, the display will turn off and the phone will enter sleep mode, as well as lock. Press the power key again and the screen is activated and will need to be unlocked.

CONFIGURE YOUR PHONE

When you first turn on your phone, you will need to set up a few things.

1. The **Welcome** screen displays. The default language for your phone is English. If you would like to select another language, tap English and select one of the listed languages.
2. Tap **Start** to begin.
   The **Make it Google** screen is displayed.
3. If you already have a Gmail account, tap Sign in, otherwise, tap **Get an account** and follow the onscreen instructions to create a Google account. You may also tap **Not now** and create your account later.

4. The **Use Google location** screen will appear. Google's location services use data from your phone to determine your approximate locations. The phone will default to allow Google's location services to collect anonymous location data and to use your location for Google search results and services. If you do not wish to participate in these services then tap on the check mark to opt out. Then tap **Next**.
5. In the provided fields, enter your **First** and **Last** name so that your phone can personalize some applications. Tap **Next**.
6. Read the information on the **Google services** screen, then tap **Next**.
7. At the **Setup complete** screen, tap **Finish** to complete your setup.
8. After reviewing the **Return, Recycle, Reward** screen, press Exit.

Note: In order to utilize your device to the fullest extent, you will need to create a Google Account when you first use your device. With a Google Account, you will have access to more Google applications and applications will always be in sync between your phone and computer.

Create a Google™ Account

In order to utilize your device to the fullest extent, you will need to create a Google account. This account allows you access to a range of applications and services such as Gmail, Google+ and Play Store.

1. From the Home screen, tap **All Apps** ► **Gmail**.
2. Tap **New** to create a new Google account.
   - OR -
   If you already have a Google account, select **Existing** to sign in and add your account to the phone.
3. Follow the on-screen instructions to add the Google account

Retrieve your Google Account Password

A Google account password is required for Google applications. If you misplace or forget your password, follow these instructions:

1. From your computer internet browser, go to www.google.com/accounts.
2. In the **Sign In** box, click the **Can't access your account?** link.
3. Select the **I don't know my password** option.
4. Follow the password reset instructions.

WATERPROOF & DUSTPROOF INFORMATION

This device meets IP67 standards for waterproof and dustproof as long as the battery cover and microUSB port are covered and securely sealed.

IP Code: Classifies and rates the level of protection against intrusion from solid particles and water.

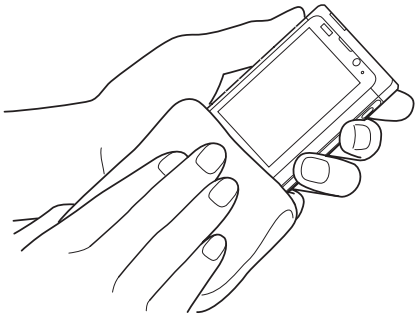
- **IP 67:** This product is protected against dirt, sand and dust. Additionally it is protected from water intrusion via direct spill or spray, as well as immersion in up to 3.28 feet (1 meter) of water for up to 30 minutes.
  - The device can be rinsed by immersing in room temperature water or under gentle running water. Ensure that the back cover and microUSB cover are securely closed and sealed.
    - **Do not** use a brush, sponge, soap, or detergent for washing.
    - **Do not** apply running water directly on the microphone or speakers.
    - **Do not** immerse or drop in a swimming pool or the sea.

Warning: Make sure the product is completely dry before connecting cables or other devices to the phone. Do not charge in environments with risk of water such as bathrooms, shower or kitchen.

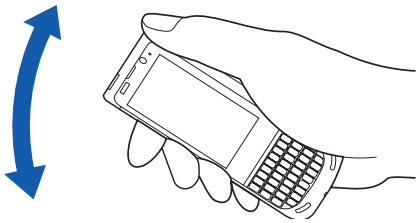
Dry Your Phone

If the microphone or speakers are exposed to water it is important to ensure they dry properly to maintain sound quality. If exposed to water, follow the following steps.

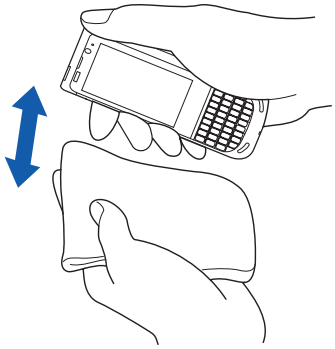
1. Wipe the surface with a dry soft cloth.



2. Securely holding the phone, shake in a downward motion until no more water comes off of the phone.



3. Gently press a dry, soft cloth over the top speaker, the microphone at the bottom of the phone and the two speakers below the keyboard. Do not use a cotton swab or any sharp device to poke into the recesses of these areas.



Warning:

- The microUSB port cover and the back cover of the phone are imperative to ensuring waterproof and dustproof capabilities. If either item is damaged or deformed it must be replaced immediately and the device cannot be used.
- Do not place the phone in hot water or use in a sauna or hot tub.
- Do not open the back cover or the microUSB port cover when the phone is wet or with wet hands.

2. Learn About Your Phone

FEATURES OF YOUR PHONE

This section outlines key features of your phone and describes how to use the touch screen. It will explain the icons that appear when using the phone as well as how to navigate your phone and use a memory card.

PHONE LAYOUT

Front & Back





1. **Proximity Sensor:** If the light path is blocked, for example when holding the phone to your ear, the touch screen will turn off. Also used for some Camera settings.
2. **Navigation Buttons:** Stationary action buttons that will always be at the bottom of your screen.
3. **Dual Speakers:** Provides a louder and clearer amplification for use during speakerphone calls or media play.
4. **Microphone:** Allows callers to hear you when you speak.
5. **Keypad:** Physical QWERTY keyboard for reliable typing.
6. **Notificiation Bar:** Provides information regarding the phone's status or operation, such as the signal strength, battery level, time, unread email, missed calls, etc.
7. **Front Camera:** Allows you to take pictures of yourself when you set the camera to Self Portrait mode.
8. **Speaker:** Placed at the ear during standard phone calls.
9. **Microphone:** Used for noise suppression, echo cancellation and stereo recording.
10. **Flash:** Provides additional lighting for pictures and videos.
11. **Back Cover Lock:** Ensures the back cover is sealed.
12. **Back Cover:** Covers the battery.
13. **Rear Camera:** Used for taking pictures or videos.
14. **Headset Jack:** The connection for headphones.



15. **Volume Key:** Adjusts the ringer volume while in standby mode or adjust the voice volume during a call.
16. **Enhanced Push-to-Talk Key:** Instantly access Enhanced PTT to make or respond to an Enhanced PTT alert.
17. **Speaker Key:** Puts a current call on speakerphone.
18. **Power Key:** Powers your phone on and off. Will also lock or unlock the touch screen when pressed once.
19. **MicroUSB Port:** Connects the wall/travel charger or other optional accessories such as a USB/data cable or a hands-free headset.

BASIC OPERATION

QWERTY Keyboard

Simply press the keys on the keyboard to enter letters and numbers, as well as punctuation marks and symbols.



1. **Shift:** Press once to capitalize, press twice for all caps.
2. **Alt:** Type the secondary symbol on a key.
3. **Symbol:** Open the symbol list.
4. **Voice input:** Activate the Voice input feature.
5. **Enter:** Return key while typing or to select an item.
6. **Backspace:** Delete the previous character or a selected item.

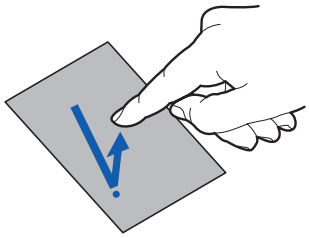
Touch Screen

This device features a touch screen that makes navigation quick and easy.

Tap

Lightly touch items to select or launch them. For example:

- Tap an application icon to launch or open the application.
- Tap a menu item to select it.
- To check or uncheck options, tap on the check box or list option.



Touch and Hold

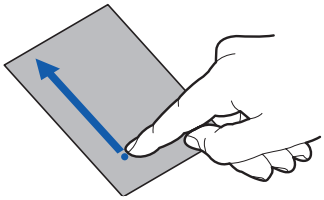
Activate on-screen items by a touch and hold gesture. For example:

- Touch and hold an icon on the home screen to move it.
- Touch and hold a widget to move it or remove it from the home screen.

Swipe

To swipe, lightly brush your finger vertically or horizontally across screen in a quick motion. For example:

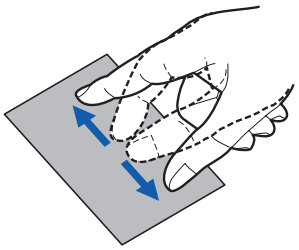
- Swipe to move between home screens.
- Swipe upward to read text while browsing on the internet.



Zoom

To zoom place your fingers together in the center of the image and pull them out towards opposite ends of the touch screen. To zoom out, pull your fingers together. For example:

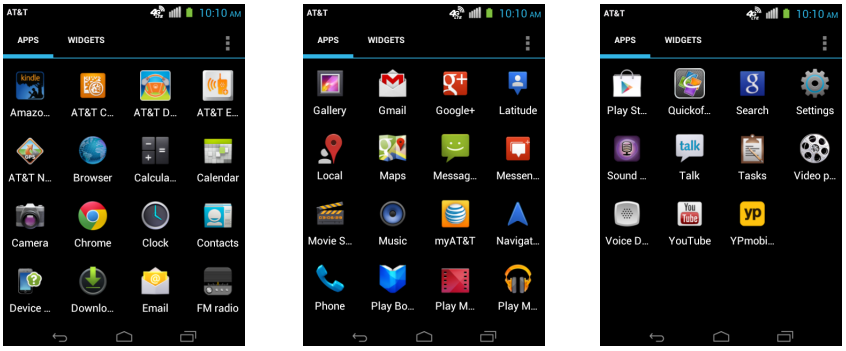
- Zoom in on text that you are reading on a website.
- Zoom in to view close ups of photos or a map.



Navigate the Apps Menu

Your phone comes with three Application Menus available. As you add applications, your menus will increase. To access your menus follow these steps:

1. At the Home screen, tap **All Apps** . The first Application Menu will be displayed.
2. Swipe the screen to the left to access the other two menus.
3. Select an application to open.



PHONE NAVIGATION

Lock & Unlock Your Phone

When your phone is turned on and left idle for a set period time, the display darkens to save the battery power. To unlock the screen, briefly press the power key and then tap **Unlock** twice.

- Lock: Briefly press the power switch on the upper right side of your phone.
- Unlock: Briefly press the power switch to bring the display back on, then tap twice.
- You may tap **Camera** twice to go directly to camera mode for quick and easy snapshots.

Navigation Buttons

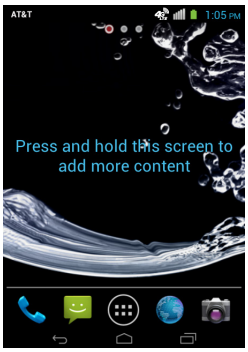
At the bottom of your screen you'll see three Navigation buttons. They are always available, no matter what screen or application you are in.

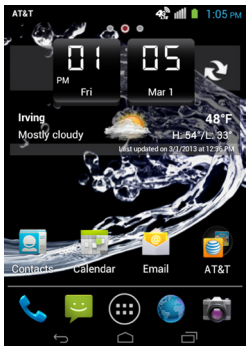
Icon	Name	Description
	Back	Opens the previous screen you were working in, even if it was in a different app. Once you back up to the Home screen, you will not be able to go any further back into your history.
	Home	Opens up the main Home screen.
	Recent Apps	Opens a list of thumbnail images of the apps you've recently worked with. To open an app, touch it. To remove a thumbnail from the list, swipe it left or right.

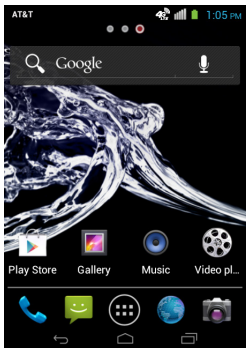
Navigate the Home Screens

The main Home screen is the starting point for your phone. This phone initially has 3 Home screens, additional screens can be added, up to 7. You can create shortcuts to your favorite applications, folders and widgets on any of the Home screens to have easy and instant access to the information and applications you use most.

- From the main Home screen, swipe the screen in either direction. The main Home screen is located in the middle with an additional Home screen on either side.



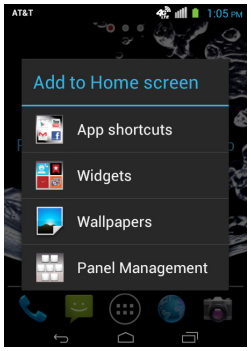




Add Home Screens

You can add up to 4 additional home screens to customize your phone.

1. On any existing Home screen, touch and hold on empty space. You will feel the phone vibrate and the **Add to Home screen** menu will appear.
2. Select **Panel Management**.
3. Press + to add screens. You can also arrange the screens in order of preference.





Note: The first 3 screens are locked and cannot be deleted or moved.

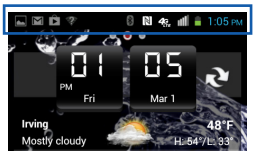
DISPLAY LAYOUT

Your phone will provide you with a wealth of information regarding the device itself, notifications, status and options, as well as provide access to applications via the application icons.

Notification Bar

Your phone is equipped with a Notification Bar at the top of your touch screen. The Notification Bar provides you with your phone's status and options as well application updates.

To expand the Notification Bar, touch the bar and then slide the bar downward.



Indicator Icons

This list identifies the symbols you'll see in the Notification Bar of your phone.

	Displays your battery's level of charge life Icon shown is fully charged		New Gmail
	Signals that your battery is charging		New Email
	Signals that the battery life is at 20% or less		New SMS / MMS message
	Signals that your battery life is at 1% and will shut down shortly		Failed to send SMS / MMS
	Signal strength		Error / alert message
	No service available		New Voice Mail message
	Connected to a GPRS Network		Upcoming calendar event
	Connected to an EDGE network		Alarm is snoozing
	Connected to a 4G network		Alarm is set
	Connected to a 4G LTE network		Music is playing
	Wi-Fi connection		USB is connected
	Unsecured Wi-Fi network is found		In call
	Bluetooth is on		On hold
	Connected to compatible Bluetooth device		Missed call
	Newly received file via Bluetooth		Speaker is on during call
	No SIM card found		Data upload / send

Microphone is muted	Data download / receive
Airplane mode	Application installation is completed
Vibration mode	Update of installed application available
Silent mode	Software update notification, updating
Eco mode	Synchronizing data
GPS is positioning	

Applications Icons

The All Applcations menu provides quick access to the items you use most frequently. The following is a list of the applications that come standard on your phone with a brief description of the application. If you would like further details, please see Chapter 11. Applications.

	Description
Amazon Kindle	Download books, magazines and newspaper to read on your phone via Amazon.com
Browser	Open the web browser to start surfing the web.
Calendar	Opens the calendar application
Calculator	Opens the calculator program.
Camera	Use the 5.0 megapixel camera to create and share photos and videos.
Chrome	Google Chrome is a web browser that can be used to search the internet.
Clock	The clock application allows you to access alarms and adjust time settings.
Contacts	Manage your contacts by storing their name, number and other information in Contacts.
Device Help	Opens the internet link to an online tutorial for your device.
Downloads	Displays your download history.
Email	Enables you to review and create email using various email service providers.
FM radio	You can listen to FM radio when you connect your headset.
Gallery	The Gallery is where you store and view photos and videos.
Gmail	A web-based email service. Gmail is configured when you first set up your phone.
Google+	A social networking tool that allows you to create and share with friends and family.

Latitude	Google Latitude allows you to see the location of all your friends on a map.
Local	An application that uses Google Maps and your location to locate surrounding Restaurants, Bars and Attractions.
Maps	Google Maps allows you to see your location and obtain directions for driving or walking.
Messaging	You can send and receive different types of messages.
Messenger	Google Messenger allows you to bring groups of friends together for group conversations.
Movie Studio	Allows you to create mini movies with videos, photos and templates.
Music	Allows you to play music files that you have stored to your phone and/or memory card.
Navigation	An internet-connected GPS navigation system with voice guidance.
Phone	Access the phone dialpad and call logs.
Play Books	Download books, magazines and newspaper to read on your phone via Google Play Store.
Play Movies & TV	Rent movies and television shows to download or watch instantly, via Google Play Store.
Play Music	Through the Google Play Store you can shop, download and listen to music.
Play Store	Google Play Store offers access to applications, books, music and games that be downloaded directly to your phone.
Quickoffice	Microsoft Office compatible software that allows you to open and edit office documents.
Search	A search application that allows you to speak or type what you would like to search the internet for.
Settings	Opens the settings application to customize the sound and phone settings for your phone. Includes access for: display, security, memory and other settings associated with phone preferences.
Sound Recorder	Create voice memos or audio recordings that are stored on your phone.
Talk	Google Talk allows for instant messaging with you friends via Gmail.
Tasks	You can create your tasks, to-do list and sort by rearranging or by due date.
Video player	Organize and play videos from your SD card and phone.
Voice Dialer	Allows you to use voice commands when using your phone or calendar.
YouTube	You can watch or upload videos to YouTube.
YPmobile	Yellowpages application provides quick and easy access to search for local businesses.

Google™ Search Bar

The Google Search Bar provides you with an on-screen Internet search engine powered by Google. You can either type or speak the item that you wish to search for.

- The Google Search bar is located on the left Home screen (swipe right to reach the screen).
- **To Type:** Tap the Google Search bar Google and then enter the item or topic you wish to look up.
- **To Speak:** Tap the **Microphone** and speak when prompted.

CUSTOMIZE YOUR HOME SCREENS

Personalize your phone by customizing your Home screens to your likes and needs.

- Change the wallpaper
- Create shortcuts
- Add or remove widgets to the Home screen
- Move widgets to different screens
- Create shortcuts
- Create folders

Shortcuts

A shortcut is different from a widget in that it launches an action, application or feature and does not update.

Create a Shortcut

1. From the Home screen, tap the **All Apps** .
2. Scroll through the applications and locate the desired application icon.
3. Touch and hold the icon. You will feel the phone vibrate and the main Home screen will appear with the icon ‘floating’ over the screen.
4. Continue pressing on the icon and then drag the icon to any open position on Home screen.
5. When satisfied with the location, lift your finger and release the icon.

Note: To move the icon to another screen, drag the icon to the right or left edge of the screen until the screen changes. Then place the icon in any open space.

Move a Shortcut

1. Locate the desired icon on any of the Home screens.
2. Touch and hold the icon, until the icon begins to ‘float’.
3. Drag the icon to the desired location within the screen or drag the icon to the right or left edge of the screen to access one of the side Home screens.
4. Once positioned, release the icon by lifting your finger.

Remove a Shortcut

1. Locate the desired icon on any of the Home screens.
2. Touch and hold the icon, until the icon begins to ‘float’.
3. You will see the **X Remove** appear at the top of the screen in red.
4. Drag the icon over the red **X Remove** until a red box appears, then release.

Note: This action simply removes the shortcut from the Home screen, it does not actually delete the application from your phone.

Primary Shortcuts

Located in the bottom ‘tray’ of your screen, Primary Shortcuts are the stationary icons that appear no matter what Home screen you are on. You can change or move these primary shortcuts except for the **All Apps** shortcut. Follow the same Shortcut instructions detailed above.

Widgets

Widgets can reside on the main or extended Home screens and feed information or updates to your screen without having to open the application.

Add a Widget

1. From the Home screen, tap the **All Apps**.
2. At the top left corner are the options of APPS or WIDGETS, tap WIDGETS.
3. Scroll through the widgets and locate the desired item.
4. Touch and hold the widget, until you feel the phone vibrate. The main Home screen will appear with the widget ‘floating’ over the screen.
5. Continue pressing on the widget and then drag it to any open position on the Home screen.
6. When satisfied with the location, lift your finger to release the widget.

Note: To move the widget to another screen, drag the widget to the right or left edge of the screen until the screen changes. Then place the icon in any open space.

Remove a Widget

1. Locate the desired widget on any of the Home screens.
2. Touch and hold the widget, until it begins to ‘float’.
3. You will see the **X Remove** appear at the top of the screen in red.
4. Drag the widget over the red **X Remove** until a red box appears, then release.

Note: This action simply removes the widget from the Home screen, it does not actually delete the widget from your phone.

Folders

You can organize your Home screens by combining similar applications together to create folders for a variety of uses.

Create a Folder

1. Tap and hold the desired icon, once you feel the phone vibrate, drag it to the icon that you wish to combine it with.
2. Release the icon and a folder has been made.

Name a Folder

1. Select and open the folder to be named.
2. Tap on the Unnamed Folder field, and a cursor will appear.
3. Type in your title and then tap anywhere on the home screen twice.

Remove a Folder

1. Touch and hold the folder you wish to remove until the phone vibrates and the folder begins to ‘float’.
2. Drag the folder up to the **X Remove**, once the red highlight appears, release your finger.

Change the Wallpaper

You can personalize your phone by changing the wallpaper or background on your Home screens.

1. On any of the Home screens, touch and hold an empty area of the screen.
2. The **Add to Home screen** menu will appear.
3. Select **Wallpapers**.
4. You can choose one of the following options:
   - **Gallery:** to select a wallpaper from the photos you have taken with your camera.
   - **Live Wallpapers:** to select an animated wallpaper.
   - **Wallpaper Gallery:** to select from still-life wallpapers.
5. Once you select a wallpaper you will be taken to a preview screen, tap **Set wallpaper**.

MEMORY CARD

Your phone is enabled to use a microSD (SD) card to expand you available memory space. This section will address how to properly install and un-install the SD card.

Mounting a MicroSD Card

1. Insert the SD card into the internal SD card slot under the battery.
2. The SD card will be scanned and available via your phone once your phone has been turned back on. You will see a note in the notification bar “Preparing the SD Card” as a confirmation.

Unmounting a MicroSD Card

You can safely remove the microSD card from your phone at any time once your phone is turned off. If you remove it while your phone is powered on, you should first unmount the microSD card. Otherwise, the microSD card may become corrupted and damage the data stored on the card.

1. From the Home screen, pull down the notification bar at the top of the screen.
2. Select **Settings** ⚙️.
3. Scroll down and tap on **Storage**.
4. Scroll down to **Unmount SD card**.
5. Tap **OK**.

You may now safely remove your SD card.

Erase a MicroSD Card

You can format or erase your microSD card in order to free up memory using your phone.

1. Ensure the SD Card is mounted.
2. From the Home screen, pull down the notification bar at the top of the screen.
3. Select **Settings** ⚙️.
4. Scroll down and tap on **Storage**.
5. Scroll down and select **Erase SD card**.

Warning! Performing the next step will erase all data stored on the SD card.

6. Tap **Erase SD card**.

Note: The microSD card is sold separately from your phone.

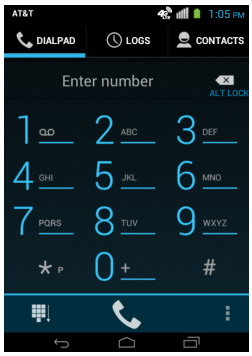
3. Call Functions

This section describes how to make or answer a call as well as other features and functionality associated with phone calls.

FIND YOUR PHONE NUMBER

1. From the Home screen, tap ► **Settings** ► **About phone** ► **Status**. Scroll down to the **My phone number** field, where your number will be displayed.

MAKE A CALL



1. From the Home screen, tap **Phone**.
2. Enter the phone number using the dial pad.
   - If you enter a wrong number, tap **Backspace** to delete a previous character or number.
3. Tap **Call** located underneath the dial pad.
4. Tap **End Call** to disconnect.

Manual Pause Dialing

1. After entering the phone number, tap the **Menu**.
2. Select **Add 2-sec pause** or **Add wait**.
3. Then enter the additional numbers.

International Calls

1. From the Home screen, tap .
2. Touch and hold **0** (**0** with **+** sign from dial pad). The **+** character will appear.
3. Use the on-screen dialpad to enter the country code, area code and phone number.
4. Tap to make the call.

End a Call

- Tap **End Call** to disconnect your call.

Dial a Recent Number

All incoming, outgoing and missed calls are recorded in the **LOGS** tab. If the number or caller is listed in your Contacts, the associated name also displayed.

1. From the Home screen, tap .
2. Tap the **LOGS** tab. A list of recent calls is displayed.
3. Tap the desired contact to enter the details page, then tap **Call** to dial the number.

EMERGENCY CALLS

If you do not have a SIM card installed the first time you turn on the phone, the **SIM Card Not Found** icon will appear in the notification bar. Without your SIM card, you can only make an emergency call with the phone; normal cell phone service is not available.

Emergency Call without a SIM Card

1. From the Home screen, tap .
2. Enter 9-1-1 and tap . During this type of call, you will have access to the Speaker mode, Keypad, and End Call features.
3. Tap to exit this calling mode.

Emergency Call with a SIM Card

The Emergency calling mode makes redialing an emergency number a 1-tap process. Before you can resume normal calling operations, you should first exit this mode.

1. From the Home screen, tap .
2. Enter the emergency number (ex: 911) and then tap .
3. Complete your call. During this type of call, you will have access to the Speaker mode, Keypad, and End Call features.

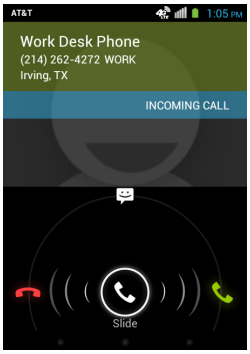
CALL FROM CONTACTS

You can store phone numbers and other information about people that you call on a regular basis in your Contacts. To make a call to a stored contact:

1. From the Home screen, tap .
2. Select the **CONTACTS** tab.
3. Find your Contact, then tap to dial directly.

ANSWER A CALL

When a call is received the phone rings and displays the caller's phone number, or name if stored in Contacts.



1. At the incoming call screen:
   - Touch and drag to the right towards to answer the call.
   - Touch and drag to the left towards to reject the call and send to your voicemail.
   - Touch and drag to the to send one of the following messages to the caller.
     - Can't talk now. What's up?
     - I'll call you right back.
     - I'll call you later.
     - Can't talk now. Call me later?
     - Custom Message

CALL LOG

The phone stores the numbers of the calls you've dialed, received, or missed in the Call Log. The Call Log displays the details of each call.

1. From the Home screen, tap .
2. Tap the **LOGS** tab.

A list of recent calls is displayed. If the number or caller is listed in your Contacts, the associated name is displayed.

All calls made, received, and missed are listed. Types of calls are identified by the following icons:

- Incoming Calls:
- Outgoing Calls:
- Missed Calls:

View Missed Calls

If you have missed a call the will appear in the Notification Bar.

1. Drag the notification bar down.
2. Select the to view the caller information.

Call Back a Missed Call

1. From the Home screen, tap ► **LOGS**.
2. Select the missed call. The Call Detail page is displayed.
3. Tap **Call**.

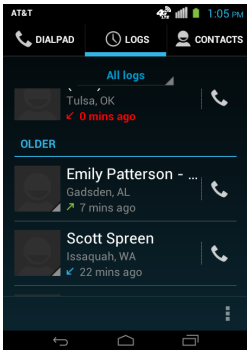
Save a Recent Call to Contacts

1. From the Home screen, tap ► **LOGS**.
2. Tap the number you want to save to your Contacts.
3. The Call Detail page is displayed. Tap **Add to contacts**.
4. Tap **Create New Contact** or you can search existing contacts to add the number to an existing profile.
5. Complete the necessary information in the various fields.
6. Tap **Done**, to save when you are finished.

Send a Message to a Recent Call

1. From the Home screen, tap ► **LOGS**.
2. Select the missed call. The Call Detail page is displayed.
3. Tap **Message**.

Delete a Call From the Call Log



1. From the Home screen, tap ► **LOGS**.
2. Touch and hold the call you want to delete. You can select multiple calls. If you accidently select a call you do not wish to delete, simply tap the call again and it will be unmarked.
3. Tap **Trash**.
4. At the delete prompt, tap **OK**. The call(s) is deleted from the call log.

Call Duration

1. From the Home screen, tap ► **LOGS.**
2. Select a call. The Call Detail page is displayed.
3. The duration of the call is shown below the description of incoming/outgoing call.

OPTIONS DURING A CALL

Your phone provides a number of control functions that can be used during a call.

Adjust Call Volume

During a call, to adjust the earpiece volume, use the Volume keys on the left side of the phone.

- Press the **Up** volume key to increase the volume level and press the **Down** volume key to decrease the volume level.

From the Home screen, you can also adjust the ringer volume using these same keys.

In-Call Options

During a call there are several functions that are available in the tool tray at the bottom of your screen.

Add call: displays the dialpad in order to call another person.

Dialpad: access the dialpad in order to enter numbers using DTMF (Dual Tone Multi-Frequency) to enter data or interact with automated services.

- To display, tap . To remove, tap the DIALPAD again.

Speaker: places the audio through the phone's speakers.

- Tap to turn on the speakers (you can adjust the speaker volume using the volume keys). A blue line will appear under the .
- Tap to turn the speakers off. The blue line will disappear when the speakers are not on.

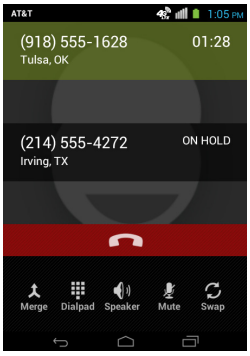
Mute: turns the microphone off during a call.

- Tap during a call to mute the microphone. A blue line will appear under the .
- Tap again to unmute the microphone. The blue line will disappear when Mute has been deactivated.

Hold: places your current call on hold. While on **Hold** you can call another person by selecting **Add call.**

- While on the call, tap to place your call on hold. A blue line will appear under the .
- To remove the call from hold, tap again. The blue line will disappear once the call has been taken off Hold.

Switch Between Calls (Swap)



When you have an active call and a call on hold, you may switch between the two calls, changing the one on hold to active and placing the other on hold.

1. Tap **Swap**.

The current call, in green, is placed on hold and the previous call on hold, in black, is then reactivated so that you can continue conversing with that person. The active call will appear in a green box.

2. Tap to end the currently active call.

To end a specific call

1. Tap until the call you want to end appears in a green box.
2. Tap to end the specific call.

To answer a call while you have a call in progress

1. Tap and slide to the right to answer another call.
2. To switch between the two calls, tap .

To end a call on hold

1. Tap to disconnect the active call.
2. The call on hold will now become the active call. Tap to end the call.

Multi-Party Calls (Merge Calls)

The Multi-Party or Merge feature allows you to make or answer a series of calls and place them on hold and then join or Merge the calls into one multi-party call. This feature joins all of the calls you have established with your phone (both active and on hold) into one multi-party call.

1. Make or receive a call.
2. Tap the **Hold** and then press **Add call** and dial another person. Or you can answer an incoming call (this will automatically place your current call on hold).
3. To merge the two calls, tap **Merge**.
4. Tap to end the call.

Note: The Merge option combines all of the calls you have established with your phone (both active and on hold). The Swap option places the current call on hold and then activates the previous call.

Search for Contact

1. During an active call, tap .
2. Tap **Contacts**, to open your contacts.
3. Search or scroll to find the contact you are seeking and select to open.
4. When done, pull down the Notification Bar and select Current call.

CALL SETTINGS

There are multiple feature settings that you can adjust to your preferences that can customize the way you handle phone calls. To access these settings from the Home screen:

1. Tap ► ► **Settings**

Fixed Dialing Numbers (FDN)

Fixed dialing numbers allows you to restrict outgoing calls to a limited set of phone numbers that are contained on your SIM card. To access this feature go to **Settings** in the phone application and follow the steps below.

Enabling FDN

1. Tap **Enable FDN**.
2. At the prompt, enter your PIN2 code and tap **OK**. FDN is enabled.

Important! The PIN2 code is provided by your carrier. Entering an incorrect PIN2 code could cause the phone to lock. Contact customer service for assistance.

Changing the PIN2 Code

1. Tap **Change PIN2**.
2. At the prompt, enter your old PIN2 code.
3. When prompted, enter the new PIN2 code.
4. Confirm your PIN2 code.

Create a FDN List

When this feature is enabled, you can make calls only to phone numbers stored in the FDN list on the SIM card. Before you can manage an FDN list a list must be created.

1. Tap **FDN list** ► ► **Add contact**.
2. Enter the contact name and phone number, then tap **Save**.
3. The new contact will now be added to your **FDN List**.

Quick Responses

1. From the Phone settings screen, tap **Quick responses**.
2. Select an existing quick response to edit.
3. Edit the response and press **OK**.

Hide Dialpad

This option allows you to hide the dialpad in the phone application.

- From the Home screen, tap ► ► **Settings** ► **Hide dialpad** to create a checkmark and enable this feature.

Audible Touch Tone

This option allows you to turn the dialpad tone on or off while dialing phone number.

- From the Home screen, tap ► ► **Settings** ► **Audible touch tone** to remove the default checkmark and disable the sound.

Voicemail

You can manage your voicemail defaults by accessing the settings. From the Home screen, tap ► ► **Settings**.

Voicemail service

- From the Phone settings screen, tap **Voicemail service**. Voicemail service provided by your carrier is the default.

Voicemail settings

You can view or modify your voicemail number from this menu.

1. Tap the **Voicemail settings** ► **Voicemail number**, delete the existing number and enter a new voicemail number using the keypad, then select **OK**.
2. Tap **OK**.

Vibrate

This option allows you to select vibration settings.

1. Tap **Vibrate**.
2. Select **Always**, **Only when silent** or **Never**.

Hearing Aids

This option allows you to turn hearing aid compatibility on or off.

- From the Home screen, tap ► ► **Settings** ► **Hearing aids** to create a checkmark and enable this feature.

TTY Mode

A TTY (also known as a TDD or Text Telephone) is a telecommunications device that allows people who are deaf, hard of hearing or who have speech or language disabilities, to communicate by telephone.

Your phone is compatible with select TTY devices. Please check with the manufacturer of your TTY device to ensure that it is compatible with digital cell phones.

Your phone and TTY device will connect via a special cable that plugs into your phone's headset jack. If this cable was not provided with your TTY device, contact your TTY device manufacturer to purchase the connector cable.

1. From the Home screen, tap ► ► **Settings** ► **TTY mode**.
2. Select **TTY Full**, **TTY HCO**, or **TTY VCO**. A blue dot will appear.
3. Or tap **TTY Off** to disable the feature.

DTMF Tones

This option allows you to set the length of the DTMF (Dual Tone Multi-Frequency) tones.

- From the Home screen, tap ► ► **Settings** ► **DTMF Tones**, then select **Normal** or **Long**.

Call Forwarding

1. From the Home screen, tap ► ► **Settings** ► **Call forwarding**.
2. Select one of the following options:
   - **Always forward:** allows you to forward all calls. When you select this option, you will need to manually enter the number you wish to forward to, including your voicemail.
   - **Forward when busy:** allows you to forward calls to a designated number instead of your voice mail number if you are on another phone call.
   - **Forward when unanswered:** allows you to forward calls to a designated number instead of your voicemail number when there is no answer on your phone. You can also select the amount of time that the phone delays before forwarding.
   - **Forward when unreachable:** allows you to forward voice calls to a designated number instead of your voicemail number when you are not in an area covered by your service provider or when your phone is switched off.

Additional Settings

1. From the Home screen, tap ► ► **Settings** ► **Additional settings**.
2. Tap one of the following options:
   - **Caller ID:** allows you to choose how your Caller ID will be displayed. Select **Network default**, **Hide number** or **Show number**.
   - **Call waiting:** the network service informs you when someone is trying to reach you during another call. Tap **Call waiting** to create a checkmark and activate this feature.

Internet Call Settings

If you would like to make and receive internet calls you can manage your settings. From the Home screen, tap ► ► **Settings**.

Accounts

1. From the Phone settings screen, tap **Accounts**.
2. Then tap **Receive incoming calls** to create a checkmark and activate this feature.
3. Next, tap **Add Account**, to set up your internet calling account and tap **Save**.

Use Internet calling

1. From the Phone settings screen, tap **Use Internet calling**.
2. Select which calls you want to use your Internet calling feature with.

4. AT&T Enhanced Push-To-Talk

This section describes how to use Enhanced Push-to-Talk (PTT) as well as other features and functionality associated with this service. Enhanced PTT is an additional service that must be subscribed to from AT&T. Additional charges may apply. Contact AT&T to add this service to your account.

TACTILE KEY

Your phone has a dedicated tactile Enhanced PTT key on the left side. When this key is pressed you will be instantly taken to the Enhanced PTT application. The tactile key will also start calls for faster communication.



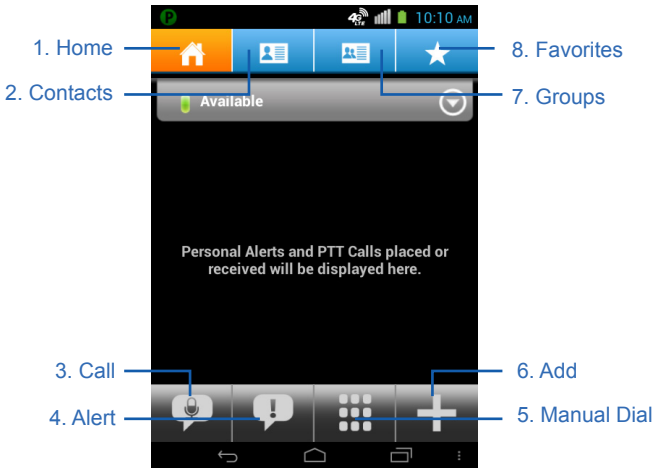
ENHANCED PTT APPLICATION

Install the Application

1. From the Home screen, tap .
2. Select **AT&T Enhanced PTT** .
3. Follow the on-screen instructions.
4. Once the download is complete, select **Open**.

Enhanced PTT Options

From the phone's Home screen, select Enhanced Push-to-Talk . You will see the following options:



1. **Home:** Displays your call and conversation history, as well as your availability status.
2. **Contacts:** Lists your contacts and provides options to call or alert.
3. **Call:** Prompts the call menu to select from a **PTT Call**, **Group Call** or **Quick Group Call**.
4. **Alert:** Sends an Instant Personal Alert to a contact requesting a call back.
5. **Manual Dial:** Brings up the dialpad for manual dialing.
6. **Add:** A shortcut to create a new favorite, contact or group.
7. **Groups:** Lists all groups.
8. **Favorites:** Displays your favorite contacts and groups.

CONTACTS

Create Contacts

The Enhanced PTT contacts directory is separate from the phone's native contacts directory. There are two ways to add Enhanced PTT contacts:

Manual Entry – Contacts can be imported from the phone's native contact list or manually entered into the Enhanced PTT application. Some phones may not have this ability if the corporate administrator has restricted manual contact entry.

Administrator-Managed Contacts – A corporate administrator can add Enhanced PTT contacts directly into all of a corporation's Enhanced PTT phones. Contacts added by a corporate administrator cannot be deleted or changed.

Add Contacts

From the Contacts Screen

1. Tap the Menu ⋮ at the bottom right corner of the screen.
2. Select **Add Contact**.
3. Select **Native Phonebook** or **Manual Input**.
4. For **Native Phonebook**, select the contact and then tap **Save**.
5. For **Manual Input**, enter the contact's information and the tap **Save**.

You can assign the contact a color, avatar or set them as a favorite. Once you save a contact's information, it will appear in the Enhanced PTT contact list.

From the Enhanced PTT Home Screen

1. At the bottom right corner of the Enhanced PTT home screen, select the + and then select **New PTT Contact**.
2. Follow the above steps 3 - 5 in the **From the Contacts** section.

Rename a Contact

This feature applies to manually entered contacts only.

1. Tap **Contacts**, then touch and hold the contact you want to rename and a menu will be displayed.
2. Select **Edit Contact**.
3. Rename the contact and hit **Save**.

Note: You cannot edit an existing contact's number. You can only edit the name, avatar and picture. To change an existing contact's phone number, delete it first and then create a new one.

Delete Contacts

The following steps apply to manually entered contacts only.

1. Tap **Contacts**, then touch and hold the contact you want to delete and a menu will be displayed.
2. Select **Delete Contact**.
3. Tap **Yes**, to delete.

GROUPS

Create Groups

Groups can be created manually or pushed to the phone by the corporate administrator. Groups added by a corporate administrator cannot be deleted or changed.

The following steps illustrate how to create a group manually.

1. Go to **Groups** ► **Menu** ► **New Group**.
2. Enter the group name and then press **Add Members**.
3. Select a picture, color or set as a favorite.
4. Tap **Save**.

Edit Groups

The following steps apply to manually entered groups only.

1. Tap **Groups** .
2. Press and hold the desired group, and a menu will be displayed, select **Edit Group**.
3. You can rename, add members, assign an avatar and assign a color to your group.

MAKE CALLS

Enhanced PTT Call to an Individual

1. Go to and select the contact you want to call.
2. Press and hold the tactile Enhanced PTT key to start the call.
3. Start speaking after the ‘chirp’. When finished, release the tactile key.
4. If the circle turns red, or you hear an ‘error’ tone, it means someone else has the floor. Wait for the floor control to be released (you will hear a ‘release’ tone when the floor is open).
5. Tap **End Call** to disconnect the call or the call will time out.

Enhanced PTT Call to a Group

1. Tap .
2. Select the group you wish to call.
3. Press and hold the Enhanced PTT key and begin speaking after you hear the ‘chirp’. All group members will receive the call.

Calls from Call History

1. Go to the Enhanced PTT home screen to see a list of the most recent calls and select a contact.
2. The **Call** button will appear for you to call the contact back.

Quick Group Calls

Quick Group Enhanced PTT calls work the same way as pre-defined group calls. All parties within the ad hoc group will receive the call and will remain in the session together.

1. Tap and mark the contacts you would like include.
2. Press and hold the Enhanced PTT key and begin speaking after you hear the ‘chirp’.

RECEIVE CALLS

1. When you receive an Enhanced PTT call, you will hear a ‘chirp’ followed by the initiator’s voice.
2. To respond, press and hold the tactile Enhanced PTT key on the left side of the phone and begin speaking. When finished, release the key.
3. If you hear an ‘error’ tone while holding the Enhanced PTT key, it means someone else has the floor. Wait for the floor control to be released (you will hear a ‘release’ tone when the floor is open).
4. Tap **End Call** to disconnect the call or the call will time out.

Note: When your phone is set to silent, you will not hear incoming Enhanced PTT calls. However increasing the phone’s audio volume will allow you to hear the call once it is in progress or speak to the caller. If the speaker is off, you can hear the Enhanced PTT call audio through the earpiece.

Enhanced PTT Calls During Standard Calls

If an Enhanced PTT call comes in while you are on a regular phone call or another Enhanced PTT call, you will receive a missed call alert. You can call that party back from the alert.

Standard Calls During an Enhanced PTT Call

If you receive an incoming phone call while on an Enhanced PTT call, you will be able to answer that call and put the Enhanced PTT call on hold.

SET AVAILABILITY

1. At the Enhanced PTT Home screen, tap on the **Availability** bar.
2. Select the availability you want.
3. The icon and status will be updated.
4. If your availability status is Do Not Disturb (DND), you cannot receive an Enhanced PTT call, or send an Instant Personal Alert (IPA).

SEND & RECEIVE ALERTS

Instant Personal Alert

An Instant Personal Alert (IPA) is a ‘call me’ message that you can send to a recipient who’s status is Available or Do Not Disturb.

1. Tap  and select the contact you want to send an alert to.
2. Press **Alert** at the bottom of the screen. A confirmation will appear on the screen.

Note: You can send an alert only if your presence state is Available.

Receiving an Alert

When you receive an alert you will be notified of the sender’s name, day and time of the alert.

1. To respond: Touch the **Call** button on the menu.
2. You will be taken to the Enhanced PTT call ‘ready’ screen.

Set Favorites

The application allows you to designate certain contacts and groups as favorites, which are listed under the **Favorites** ★ tab.

1. To set a contact or group as a favorite: from the Home screen, go to the bottom action bar and select **Add** + and then select **Add to Favorites**.
2. Choose which contacts and groups you would like to show up in your favorites.

Select ★ on the top menu bar. You can call or send an IPA directly from the **Favorites** list.

SUPERVISORY OVERRIDE

The Supervisory Override feature allows a designated user to take the floor (and start speaking) at any time during a group call, even if someone else is speaking. A supervisor can only be assigned by an administrator, and a **supervisor symbol** ⓐ is displayed next to the name of the assigned supervisor.

As a supervisor, you can simply use the Enhanced PTT key to take the floor at any time and begin speaking. Likewise, if you are not a supervisor, your control of the floor can be overridden any time by a supervisor.

ENHANCED PTT SETTINGS

You can customize the Enhanced Push-to-Talk application through settings.

1. Customize your preferences for alerts, sounds, notifications and information display. You can also access the Enhanced PTT tutorial from here as well.
   - From the Enhanced PTT Home screen, tap ⋮ ► **Settings**.

5. Enter Text

This section describes how to use the QWERTY keyboard and predictive text in order to reduce the amount of key strokes associated with entering text.

INPUT METHODS

There are two text input methods available:

- **Physical QWERTY Keyboard:** Use the physical QWERTY keypad to type.
- **Google Voice Typing:** Allows you to speak your text in any application.

QWERTY KEYBOARD

Use your physical QWERTY Keyboard to enter text or data in the same manner you would use a keyboard with common symbols listed in blue text.



Text and Symbol Input

- The QWERTY Keyboard is laid out as a normal keyboard. Symbols or numbers can be accessed by pressing the **Alt** key and then the desired symbol in blue on the keyboard.
- If the symbol you are seeking is not on the keyboard then you can locate it by pressing the **Sym** key. To select, tap on the desired symbol.

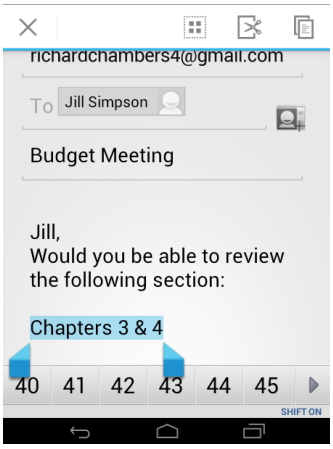
GOOGLE™ TALK-TO-TEXT

You can speak your text using the Google Talk-to-Text typing feature while in almost any application, once you have engaged in a typing activity.

1. Press next to the space bar key.
2. Begin speaking when the **Speak Now** appears.
3. Your text will appear on the screen. If the text is incorrect, hit **Backspace**.
4. Press the **Spacebar** or **Enter**.

Note: This feature works best when you break your message down into smaller segments and speak clearly.

FORMATTING BASICS



Using the Cursor

- When you tap on the message field the cursor will appear.
- You can move the cursor around by touching and dragging the blue cursor to the desired location.
- To highlight a word, touch and hold the text to create two half cursors.
- You can expand the highlighted area by dragging one of the cursors to highlight the remaining text.

Copy & Paste

- Once you have the word or text highlighted you will see a menu at the top of the screen.
- You can choose to:
  - **Select All**
  - **Cut**
  - **Copy**
  - **Paste**
- You can copy text from one application to another. For example copy a text message and insert the text into an email.

6. Contacts

This section allows you to manage your daily contacts by storing their names, numbers and other information in your Contacts application.

AT&T ADDRESS BOOK

The AT&T Contacts is a free backup service that allows your contacts to be automatically synchronized between your phone and online Contacts. Easily restore your contact information if you ever upgrade, damage, or lose your phone.

- The AT&T Contacts will automatically initialize the first time you open your Contacts, if you would like to take advantage of this service, select **Yes** and follow the prompts.

Note: You can also manage your Contacts on the web at http://www.att.com/addressbook.

SYNCHRONIZE AT&T ADDRESS BOOK

1. From the Home screen, tap **Contacts**.
2. Press ► AT&T Address Book.
3. Once in the AT&T Contacts screen, tap ► **Sync now**.

ADD A NEW CONTACT

1. From the Home screen, tap ► **New Contact**.
2. At the top, select **AT&T Address Book**, **SIM** or **Google**.
3. Enter the Name.
4. You can assign a picture to the new entry by tapping on the and selecting a picture from one of these options:
   - **Choose from gallery**: retrieve a previously stored image from your Gallery. Once the image is selected you can crop the photo accordingly then tap **Save**.
   - **Take photo**: use the camera to take a new picture. Crop accordingly and then tap **Save**.
   - **Remove photo**: this option will appear if you have already assigned a photo and want to remove or change the image.
5. Enter the phone number via the QWERTY keyboard. You can select the type of phone number it is by tapping to the right and scrolling through the list.
6. Add additional information by selecting **Add new** or **Add another field**:
   - Address
   - Email
   - Groups
   - Relationship
   - Notes
   - Gender
   - Organization
   - IM
   - Hobby
   - Website
   - Events
   - Nickname
7. When you have completed editing the new contact, tap **Done**.

ADD PAUSES TO CONTACT NUMBERS

When you call automated systems, you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in the contact along with special characters that represent **pauses** and **waits**.

Pause: Stops the calling sequence for two seconds and is displayed as a comma (,).

Wait: Pauses the calling sequence until you enter a number or press a key and is displayed as semi-colon (;).

Add a Pause or Wait to a Number:

1. From the Home screen, tap , then select the desired Contact.
2. Tap ► **Edit**.
3. Tap the phone number field.
4. Move the cursor to the place where the **pause** or **wait** will be added.
5. Enter a comma (,) **Pause** to add a two-second pause or a **Wait** (;) to add a wait
6. Tap ✓ **Done** to save your changes.

EDIT AN EXISTING CONTACT

When you need to update an existing contact take the following steps:

1. From the Home screen, tap .
2. Select the desired contact to open.
3. Tap ► **Edit**.
4. Make the edits that are required and then tap ✓ **Done**.

JOIN CONTACTS

Combine Contacts

Many people now maintain multiple email accounts, social networking accounts, and other similar information. This device can synchronize with multiple accounts such as Facebook, Twitter, Google+ and corporate email. When you synchronize your phone with these accounts, each account creates a separate entry in your Contacts.

For instance, John Webb has an email and phone number that you maintain in Gmail, but also has a Facebook entry, and a Yahoo! IM account, you can merge all of those entries into one.

1. From the Home screen, tap .
2. Select a contact.
3. Press ► **Join**.
4. Your contact list will appear for you to select a second entry. Select the second contact and the information is automatically merged.

Note: The information is still maintained in both entries, but displays in one record for easier viewing when you join the contacts.

Separate a Contact

1. From the Home screen, tap .
2. Select the contact that has been merged.
3. Tap the ► **Separate**.
4. The contact entries will now display as separate contacts.

Note: Typically this is the same contact with a different name or account information.

Assign Default Information

Many contacts have several phone numbers and emails. However, to save time you can select which information in the entry is the primary or default entry to be used when calling or emailing the contact. For example, John Webb may have 3 phone numbers, but you most often need to call his cell phone, so you set his mobile number as the default when you call him.

1. From the Home screen, tap .
2. Tap a Contact name.
3. Press and hold the number you wish to select until a menu screen appears. Select **Set default**.

CONTACTS OPTIONS

You can access additional features in the Contacts main page or while in the details page for a specific entry.

Options in Contacts

1. From the Home screen, tap ► .
2. The following options are displayed:
   - **Contacts to Display:** If you have multiple contact accounts (such as Google and Facebook) you can select which of those accounts to display.
   - **Import/Export:** Allows you to move contacts to or from your memory card or USB storage. You can also share contacts via Bluetooth, Email, Gmail or Messaging.
   - **Accounts:** You can manage your accounts and add additional accounts. Tap **Add account** and then follow the on-screen instructions.
   - **Settings:** allows you to choose from the following options:
     - **Sort list by:** Allows you to sort by First name or Last name.
     - **View contacts names as:** Select First name or Last name first in your contacts display.
   - **Manage contacts:** Copy contacts into different address book accounts.
     - **AT&T Address Book:** Review settings and sync contacts manually.

Options in a Contact's Screen

1. From the Home screen, tap .
2. Select a contact, then tap .
3. The following options are displayed:
   - **Edit:** Edit the contact's information.
   - **Share:** Send the contact's information via Bluetooth, Email, Gmail or Messaging.
   - **Delete:** Delete the entry from your Contacts.
   - **Set ringtone:** You can select a ringtone for that individual contact when they call.
   - **All calls to voicemail:** Tapping this option will send all calls from this contact directly to your voicemail
   - **Separate:** Will un-join the contacts you have merged back into individual entries (this will only appear in a contact entry that has been joined).
   - **Join:** Merge the contact with other contacts.
   - **Send contact:** Compiles the entire contents of the contact into a text message.

GROUPS

Add a Contact to a Group

1. From the Home screen, tap .
2. Select **Group** tab.
3. Select the group you wish to modify.
4. Tap Edit .
5. Type the person's name you wish to add and tap it as it comes up on the list.
6. Tap **Done**.

Remove a Contact From a Group

1. From the Home screen, tap .
2. Select **Group** tab.
3. Select the group you wish to modify.
4. Tap Edit .
5. Tap to the right of the name to remove the contact. Tap **OK** to confirm.
6. Tap **Done**.

Create a New Group

1. From the **Group** tab.
2. Tap the **Add Group** at the bottom center of the screen.
3. If you have multiple address book accounts, you will select which account you would like to store the group in.
4. Type in the **Group's name**, hit .
5. Type the person's name you wish to add and tap it as it comes up on the list. Continue adding as many names you want.
6. Tap Done.

CONTACTS FAVORITES

Once you have created Contacts, you can add them to your Favorites list.

To view your Favorites list:

- From the Home screen, tap ► **Favorites** tab.

Add Favorites to Your Contacts

1. From the Home screen, tap .
2. Select a contact and open the details page.
3. At the top right of the page tap the , it will turn white and the contact is now marked as a favorite.
4. A yellow star will appear on the contact's image in the Contacts list.

Remove Contacts from Your Favorites

1. From the Home screen, tap ► tab.
2. Select a contact in your Favorites list, and the details page will open.
3. Tap the which will turn grey .
4. The yellow star will no longer appear in the contact's.

MANAGE CONTACTS

You can copy, delete and view the memory status for the Phone and SIM contacts on your phone.

Copy Contacts to the SIM Card

When storing Contacts to the SIM card, only the name, phone number, and email address can be stored.

1. From the Home screen, tap ► ► **Manage contacts**.
2. Select the Contacts account that you wish to copy, by tapping on the **Copy** and select **SIM**.
3. When you select the contacts they will become highlighted.
   - Repeat this step for all individual entries you wish copied to the SIM or tap ► **Select all** to highlight all entries.
4. Tap **Copy** at the bottom left corner of the screen. Select **OK** to confirm.
5. You will receive a **Contacts copied** confirmation when the process is complete.

Note: This action will create **Joined** accounts in the Contacts listing as the contact will remain the address book application you copied it from and on the SIM card. In order to delete the copies entries you will need to separate the contacts before deleting them.

Delete Contacts from the SIM card

1. From the Home screen, tap .
2. Then in the center drop down menu, select **SIM**.
3. Select the contact you wish to delete from the SIM.
4. Select the Contact.
5. Tap ► **Delete**.
6. Tap **OK** to confirm.
   - Repeat this step for all individual entries you wish to be deleted from the SIM card.

7. Messaging

This section describes how to compose, send and receive different types of messages.

TYPES OF MESSAGES

- Text Messages
- Multimedia (Picture, Video, and Audio) Messages
- Email and Gmail Messages
- Google+ and Messenger

Short Message Service (SMS) lets you send and receive text messages to and from other mobile phones or email addresses. To use this feature, you may need to subscribe to your service provider's text messaging service.

Multimedia Messaging Service (MMS) lets you send and receive multimedia messages (such as picture, video, and audio messages) to and from other mobile phones or email addresses. To use this feature, you may need to subscribe to your service provider's multimedia message service.

Important! When creating a message, adding an image, a sound file, or a video clip to a text message changes the message from a text message to a multimedia message.

CREATE TEXT MESSAGES

1. From the Home screen, tap **Messaging** ► **New Message**.
2. Tap on the **To** field to manually enter a recipient or tap **Add Contact** to select a recipient from your Contacts.
3. When adding a recipient or multiple recipients from your Contacts, select each contact (which will be highlighted when selected), then tap at the bottom left corner of the screen.
4. Tap the **Type message** field and use the QWERTY keypad to enter a message.
5. Tap **Send**.

Note: If you exit a message before you send it, it will be automatically saved as a draft.

Note: When manually entering recipients separate each entry with a semicolon (;).

MESSAGE OPTIONS

Options Before Composing a Message

Search allows you to search through all of your messages for a certain word or string of words. Tap **Search** and enter the word(s) in the **Search messaging** field and select the word when it appears in the drop down box.

1. From the main Home screen, tap .
2. Before composing a message, press to reveal additional messaging options:
   - **Delete all:** Deletes all message threads. Tap **Delete** to confirm.
   - **Settings:** Accesses the Messaging settings.

Options While Composing a Message

While composing a message, press to reveal the following messaging options.

- **Send:** Sends the message to your contact(s).
- **Insert smiley:** Adds emoticons, such as a happy face to your message.
- **Insert Contact:** Adds contact information from your Contact list.
- **Delete thread:** Deletes the entire message thread with that contact or group.
- **Settings:** Opens the Messaging settings.

Add Attachments to a Message

To add an attachment to your message, tap and select one of the following options:

- **Pictures:** Select an existing image from your Gallery and add it to your message.
- **Capture picture:** Temporarily exits the message to take a photo with phone's camera, and then adds it to your message when you tap **Done** .
- **Videos:** Choose an existing video from the Gallery and add it to your message.
- **Capture video:** Temporarily exits the message to record a video clip using the phone's camera, and then adds it to your message when you tap **Done** .
- **vCard:** Adds the information of a saved contact to your message.
- **Audio:** Choose an existing audio file and add it to your message.
- **Record audio:** Temporarily exits the message to record an audio clip using the phone's microphone. It is then automatically attached to the message.
- **Slideshow:** Create or add a slideshow to your message.

VIEW NEW MESSAGES

1. When you receive a new message, **new text message** will appear at the top of your screen.
2. Open the Notification Bar and select the message.
   – or –
   From the main Home screen, tap then tap the new message to view it.

Message Threads

Sent and received messages are grouped into message threads. Threaded messages allow you to see all the messages exchanged (similar to a chat program) and displays a contact on the screen. Message threads are listed in the order in which they were received, with the latest message displayed at the top.

To open a threaded message follow these steps:

1. From the Home screen, tap .
2. Select the message thread you wish to open.

DELETE MESSAGES

Delete a Single Message Thread

1. From the Home screen, tap .
2. Select a message thread to open.
3. Tap ► **Delete thread** to delete the message.

Delete All Message Threads

1. From the Home screen, tap .
2. Tap ► **Delete all**.

MESSAGING SETTINGS

To configure the settings for text and multimedia messages.

1. From the Home screen, tap ► ► **Settings**.
2. The following settings are available:

Storage Settings

- **Delete old messages:** Deletes old messages when the limit is reached, rather than having them overwritten.
- **Text message limit:** Set a limit on how many text messages can be in one conversation.
- **Multimedia message limit:** Set a limit on how many multimedia messages can be in one conversation.
- **Signature:** Add a customized signature to your messages.

Text Message (SMS) Settings

- **Manage SIM card messages:** Manages the messages that you have stored on your SIM card.

Multimedia Message (MMS) Settings

- **Auto-retrieve:** Enables the message system to retrieve messages automatically.
- **Creation mode:** Select the type of creation mode: Free, Restricted or Warning.
  - **Restricted:** Limits the creation or submission of messages with only the content belonging to the Core MM Content Domain.
  - **Warning:** Will display a message when you are creating a multimedia message which does not fit the Core MM Content Domain.
  - **Free:** Allows any content be added to the message.

Notifications

- **Notifications:** Enable or disable the notification of new messages in the status bar.

Store Attachments In

- **Store attachments in:** Select where attachments are stored, phone memory or SD card.

USE EMAIL

Create an Email Account

1. From the Home screen, tap **Email** .
2. Enter you email address in the Email address field.
3. Enter your password in the Password field.
4. Tap **Next**.
5. At the Account settings screen, tap the **Inbox checking frequency** drop-down list and select how often you would like account to be checked for new mail.
6. Tap any of the other options you would like to create a checkmark.
7. Tap **Next**.
8. Enter a name for this email account (optional).
9. Tap **Next**.

Create a Corporate Email Account

Use the following procedure to configure your phone to synchronize with a corporate email account.

1. From the Home screen, tap **Email** .
2. Enter you email address in the Email address field.
3. Enter your password in the Password field.
4. Tap **Manual setup**.
5. Select **Exchange**.
6. Enter all required Exchange Server information, Domain, User name and Password, then tap **Next**.
7. At the Activation prompt, tap **OK**.
8. Enter the desired information in the different fields, then tap **Next**.
9. Enter an Account name for this account (optional) and tap **Next**.

Create Additional Email Accounts

To create additional email accounts after setting up your first account, follow these steps:

1. From the Home screen, tap .
2. Press ► **Settings**.
3. Tap **Add Account**.
4. Enter the information required to set up another account.

Switch Between Email Accounts

1. From the Home screen, tap .
2. Tap the Inbox field at the top of your screen.
3. Select the email account you would like to switch to. You can also select **Combined view** which will display email messages from all accounts.

USE GMAIL

Gmail is Google's web-based email. When you first setup the phone, Gmail is configured. Depending on the synchronization settings, Gmail is automatically synchronized with your Gmail account.

Sign into Your Gmail

1. Sign on to your Google account if you are not already signed on.
2. From the Home screen, tap ► **Gmail** .
3. Follow the on-screen instructions.

Create a Gmail Message

1. From the Gmail Inbox, tap **New Mail** at the bottom of the screen to create a new message.
2. Enter the recipients email address in the **To** field. Separate multiple recipient email addresses with a semicolon.
3. Tap and select **Add Cc/Bcc** to add a carbon or blind copy.
4. Tap the **Subject** line to place the cursor and enter the Subject.
5. Tap the **Compose email** field and begin typing your message.
6. Tap to send.

View a Gmail Message

1. From the Gmail Inbox, select a message to view it.
2. The following options are available at the bottom of the screen after a message has been selected.
   - **Archive** : Archives the selected message.
   - **Delete** : Deletes the message.
   - **Change Labels** : Labels the message; similar to putting the message in folders.
   - **Mark Unread** : Marks the message as unread.
   - **Newer:** Swipe your screen to the right to see newer messages.
   - **Older:** Swipe your screen to the left to see older messages.

3. Press to select one of the following additional options.
    - **Mark important/not important:** Selects the importance of a message.
    - **Mute:** Mutes any sound in a message if applicable.
    - **Report spam:** Identifies the message as spam. Tap the UNDO option if you change your mind.
    - **Settings:** Displays email settings that can be modified.
    - **Help:** Displays the Google.com webpage so you can search the web for help.
    - **Send feedback:** Enables the feedback option or to report a problem.

Other Gmail Options

1. Tap **Refresh** at the bottom of the screen to refresh the screen, send and receive new emails, and synchronize your Gmail account.
2. Tap **Labels** at the bottom of the screen to set up and manage labels for your messages.
3. Tap **Search** at the bottom of the screen to search through your Gmail messages.

Google +

Google+ makes messaging and sharing with your friends easier. You can set up Circles of friends, visit the Stream to get updates, use Messenger to chat with everyone in your Circles, or upload videos and photos to your own private album on Google+.

1. Sign in to your Google account.
2. From the Home screen, tap ► **Google+**.
3. Select the account you want to use to sign in to Google+. – or – Tap **Add account** to create another account.
4. Follow the on-screen instructions to use Google+.
5. Visit www.google.com/mobile/+/ for more information.

Messenger

Messenger allows you to combine groups of friends together into a group conversation. When you get a new conversation in Messenger, Google+ will update you on your phone.

1. From the Home screen, tap ► Messenger.
2. At the Messenger screen, tap **New Conversation** to start a new message.
3. In the upper text field, enter a name, email address or circle.
4. In the bottom message field, enter a message then tap **Send**.

8. Internet Browser

The browser is your access to the internet. This chapter explains how to navigate the browser and use the basic features.

USE YOUR BROWSER

Access the Internet

From the Home screen, tap **Browser** . The AT&T/YAHOO! mobile homepage will display.

Navigate with the Browser

1. To select an item, tap it.
2. To scroll through a website, swipe the screen with your finger in a vertical up or down motion.
3. Swipe the screen left to right in a horizontal motion to move laterally.
4. To access the **Browser Bar** at the bottom of the screen, tap . Tap anywhere on the screen to hide it.
    - The Browser Bar gives you quick access to Facebook, Like, Tweet, Apps, Share, Popular, News, Sports, Entertainment, Offers, Settings and Add More.
5. To return to the previous page, press **Back** .

Enter a Web Address

You can access a website by entering the URL or web address. Websites are optimized for viewing on your phone.

To enter a Web Address or URL:

1. Tap the **Web Address** field at the top of your screen.
2. Enter the website using the QWERTY keypad.

Zooming In and Out of the Browser

There are several ways to zoom in and out on your browser.

After tapping on a link or article, use one of these methods:

- **Double tap:** Quickly tap the screen twice on the web page to zoom in or out.
- **Pinching:** Place your fingers in the center of the screen and spread them to opposite corners to zoom in or bring them back to the center to zoom back out (use a pinching-in or pinching-out motion).

Search the Internet

To perform an internet search using keywords, follow these steps:

1. From any website, tap the web address field (the entire URL should be highlighted).
2. Using the QWERTY keyboard type the keyword(s).
3. Tap a link to view the options found in the search.

Search the Internet with Voice

To perform an internet search using the voice search, follow these steps:

1. From any website, tap the web address field (the entire URL should be highlighted).
2. Tap on the **Microphone** .
3. Clearly speak the keyword(s) that you wish to search for.
4. Select the browser you wish to use for the search.

BROWSER OPTIONS

From the broswer homepage, press to access the following options:

- **Home page:** Takes you to your browser's homepage.
- **Refresh:** Reloads the current website that you are on.
- **Forward:** If you use the key to go back in your browser, this option moves you "forward" to return to the site you were on; only available during the same browsing session.
- **Bookmarks:** Manage and edit saved bookmarks.
- **Save to bookmarks:** Adds a website to your bookmark list.
- **Gesture:** Manage and edit stored Gestures.
- **Add Gesture:** Create a Gesture to quickly access frequent or favorite websites.
- **Share page:** Share the page using Gmail or as a message.
- **Find on page:** Search the current page for a word or subject.
- **Desktop version:** Displays the current website page in the desktop view (similar display that would appear on a computer).
- **Save offline:** Stores the current page in memory so that it can be read later even off line.
- **Settings:** Modify your web settings. See "Browser Settings" in this chapter.
- **Exit:** When selected it will allow to choose to clear history, cache and/or cookies upon exiting the browser.

GESTURES

Get to your favorite sites more quickly by assigning a screen gesture as a shortcut. You can bypass manual entry or search through your browser history with a few strokes.

1. Open the browser and enter the address of the site you wish to assign a gesture.
2. Tap and select **Add gesture**.
3. Draw any symbol or letter of your choice.
4. Tap **Done**.
5. When browsing on a different page, select the **Hand** at the bottom left of the screen.
6. Draw your chosen "gesture", wait for the writing to fade, and you will be redirected to your designated site in moments.



OPEN AND CLOSE WINDOWS

You can have numerous browsing windows open at one time.

To manage your windows:

1. From your browser, press **Windows**.
    - Thumbnails of all open windows will be shown in a vertical list.
2. Tap **New** to open a new window.
3. Select an existing window to return to that Internet window.
4. Tap **Close** to close or delete a window. You can also swipe the thumbnail left or right to close window.

INCOGNITO BROWSING

The incognito feature allows you to view Internet sites outside of the normal browsing. Pages viewed in the incognito window will not appear in your browser history or search history, and no traces (such as cookies) are left on your device.

To Open an Incognito Window:

1. From your browser window, tap **Windows** ► **Incognito**.
2. A new browser window displays.

The incognito icon will appear in the upper-left of the new browser window while you are in this mode.

To Close the Incognito Window:

1. From your browser window, tap **Windows**.
2. Scroll through the available windows and locate the incognito window.
3. Tap **Close** on the top right corner of the thumbnail to close this window.

Note: Any downloaded files will be preserved and will stay on your device after you exit the incognito mode.

BOOKMARKS

While navigating a website, you can bookmark a site to quickly access it in the future. The URL (website address) of the bookmarked site will be displayed in the Bookmarks page. From the Bookmarks page you can also view your most visited websites, browsing history, saved pages and browser feeds.

1. Open your Browser, tap and select **Bookmarks**.
2. Press to display the following options:
    - **Add new bookmark:** Will allow you to manually enter the website information.
    - **Delete all bookmarks:** Erases all bookmarks in that folder.
    - **List view:** Displays the list of the bookmarks with icon and website name.
        - Grid view (default) will display a thumbnail of the webpage with the name listed below.

Add Bookmarks

1. From any webpage, tap ⋮ ► **Save to bookmarks**.
2. Enter the Label, Address, Account and Folder.
3. Tap **OK**.
4. Saved to bookmarks will appear at the bottom of the page.

Edit Bookmarks

1. From the Bookmarks page, tap and hold the bookmark you want to edit.
2. Tap **Edit bookmark**.
3. Use the QWERTY keypad to edit the Name, Address, Account and Folder.
4. Tap **OK**.

Delete Bookmarks

1. From the Bookmarks page, tap and hold the bookmark you want to delete.
2. Tap **Delete bookmark**.
3. At the **Delete** confirmation window, tap **OK**.

BROWSER HISTORY

The History list provides you with the most recently visited websites. These entries can be used to return to previously unmarked web pages.

1. From any webpage, tap ⋮ ► **Bookmarks** ► **History** tab.
2. Select a category such as **Today** or **Most visited**.
3. Tap any entry to display the webpage.

Clear Browser History

1. From any webpage, tap ⋮ ► **Bookmarks** ► **History** tab.
2. Press ⋮ ► **Clear history**.
3. Select the sites to delete or press ⋮ ► **Select all**.
4. Select the ⋮ ► **Delete**.
5. Tap **OK**.

Saved Pages

The Saved Pages list provides you with a list of the websites that you have saved for viewing offline.

1. From any webpage, tap ⋮ ► **Bookmarks** ► **Saved Pages** tab. A list of saved web pages is displayed with a thumbnail and Name. The web pages that have been visited the most will appear at the top.
2. Select the one you wish to display.
3. In order to see the latest version of the page, tap ⋮ ► **Go live**.

EMPTY COOKIES

A cookie is a small file which is placed on your phone by a website during navigation. In addition to containing some site-specific information, it can also contain some personal information (such as a username and password) which can pose a security risk if not properly managed. You can clear these cookies from your phone at any time.

1. Open the **Browser**, press ► **Settings** ► **Privacy & security** ► **Clear all cookie data**.
2. At the **Delete** prompt, tap **OK** to delete all cookies.

BROWSER SETTINGS

To access and edit your browser settings, open your **Browser** ► ► **Settings**.

General

- **Set homepage:** Select from the Current page, Blank page, Default page, Most visited sites, or Other to manually enter a homepage for the Web browser.
- **Form auto-fill:** Allows you to fill in web forms with a single tap.
- **Auto-fill text:** Allows you to enter text to be used in the Form auto-fill feature.

Privacy and Security

- **Clear cache:** Deletes all currently cached data. Tap **OK** to delete.
- **Clear history:** Clears the browser navigation history. Tap **OK** to delete.
- **Show security warnings:** Notifies you if there is a security issue with the current website.
- **Accept cookies:** Allows sites that require cookies, to save and read cookies from your device.
- **Clear all cookie data:** Deletes all current browser cookie files.
- **Remember form data:** Allows the device to store data from any previously filled out forms. Tap the checkmark to disable this function.
- **Clear form data:** Deletes any stored data from previously filled out forms. Tap **OK** to delete.
- **Enable location:** Allows websites to request access to your location.
- **Clear location access:** Clears location access for all websites. Tap **OK** to clear.
- **Remember passwords:** Stores usernames and passwords for visited sites. Tap the checkmark to disable this function.
- **Clear passwords:** Deletes any previously stored usernames or passwords. Tap **OK** to delete.

Accessibility

- **Force enable zoom:** Allows you to override the website's request to control zoom. Tap the box to create a checkmark and enable this option.
- **Text size:** Using a slider bar, you can scale the text size and enlargement when using the double tap zoom feature.
- **Inverted screen rendering:** Allows you to preview a website page, select Inverted rendering (black becomes white and vice versa), and adjust the Contrast using a slider bar.

Advanced

- **Set search engine:** Allows you to set your default search engine to Google, Yahoo!, or Bing.
- **Open in background:** New pages are launched in a separate window and displayed behind the current one. Remove the checkmark to disable this function.
- **Enable JavaScript:** Enables Javascript, without this feature, some pages may not display properly. Tap the checkmark to disable this function.
- **Enable plug-ins:** Allows the download of plug-ins such as Adobe Flash.
- **Show Browser Bar:** Displays the Browser Bar at the bottom of the screen.
- **Website settings:** View advanced settings for individual websites.
- **Downloads:** Allows you to set your default storage to Phone or SD Card.
- **Set download directory:** Allows you to edit files on the Phone or SD Card.
- **Switch memory:** Enables items to be stored on an SD Card if phone memory is full.
- **Open pages in overview:** Shows an overview of newly opened web pages.
- **Auto-fit pages:** Allows web pages to be resized to fit as much of the screen as possible.
- **Block pop-ups:** Prevents pop-up advertisement or windows from appearing on screen. Tap the checkmark to disable this function.
- **Text encoding:** Adjusts the current text encoding.
- **Reset to default:** Clears all browser data and resets all settings to default.

Bandwidth Management

- **Search result preloading:** Allows the browser to preload high confidence search results in the background to help speed up searches.
- **Load images:** Allows web page images to be loaded along with the other text components of a loaded website. Tap the checkmark to disable.

Labs

- **Quick controls:** Allows you to open quick controls and hide the app and URL bars by swiping your thumb from the left or right edge of the screen.
- **Fullscreen:** Allows you to access Full screen mode to hide the status bar.

9. Multimedia

This section explains how to use the multimedia features of your phone, including Camera, Camcorder, Gallery, Music Player, Video Player and Play Movies.

CAMERA

This section explains how to use the digital camera on your phone. Your 5.0 megapixel camera produces photos in JPEG format.

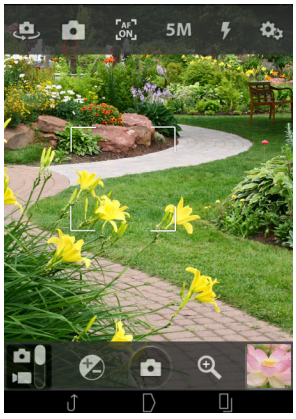
Take a Picture

Taking pictures with your device's built-in camera is as simple as point and shoot.

1. From the Home screen, tap **Camera** .
2. You can zoom in and out by tapping **Zoom** .
    - Before taking the photo, you can tap on-screen icons to access various camera options and settings.
3. Tap the screen to move the focus to the area you touch.
4. Press **Camera** until the shutter sounds.
    - The picture is automatically stored in the Gallery.
5. To view the picture after you have taken it, select the thumbnail at the bottom right corner of the screen.
6. Press **Camera** to return to the camera mode.

CAMERA OPTIONS

Options are represented by icons across both sides of the screen.



- **Camera / Camcorder Mode:** Switch between Camera and Camcorder.
- **Brightness:** Adjust the level of light allowed into the lens, using a slider bar.
- **Zoom:** Zooms in and out using a slider bar.
- **Image viewer:** Displays the last photo taken as a thumbnail so you can reviw the photo and access various options.
- **Self-portrait:** Activate the front facing camera so you can take pictures of yourself or video chat.
- **Scene mode:** Set the Scene in order to optimize the camera. Options include Auto, Portrait, Landscape, Night, and Sports.
- **Auto focus mode:** Allows you to set this option to Auto focus or Macro.

5M **Photo size:** Adjust or change the resolution of your photos:

- 5M (2560 x 1920)
- Full HD (1920 x 1080)
- 2M (1600 x 1200)
- HD (1280 x 720)
- VGA (640 x 480)

Flash: Turns the flash On or Off.

Settings:

Tag Settings: Provide ways to label your photos with location, date and audio descriptions. You can also select preloaded labels by pressing the **New Label**.

- **Location:** Tap to enable the latitude and longitude coordinates to be displayed on the picture.
- **Date:** Tap to enable the date to be displayed on the photo.
- **Audio Description:** Tap to enable an audio description to be attached to your photos.
- **Face Recognition:** Only available when the **Ask before save** option has been enabled first.
- **Ask before save:** Shows a confirmation screen after a photo has been taken. Tap to create a checkmark and enable this feature.
- **Save to internal memory:** Tap to remove the checkmark if you would prefer your photos be saved to your SD card.

ISO settings: ISO determines the level of sensitivity for the light meter on the digital camera. Choose from 400, 200, 100 or Auto. Use a lower ISO number to make your camera less sensitive to light, a higher ISO number to take photos with less light, or Auto to let the camera automatically adjust the ISO for each photo.

- **White balance:** Sets lighting balance for the following environments: Auto, Daylight, Cloudy, Fluorescent or Incandescent.
- **Effect settings:** Apply special effects to the photo; Normal, Black and White and Sepia.
- **Quality settings:** Set the image quality to Fine or Normal.
- **Self timer:** Tap to create a checkmark and enable this feature. Tap **Self timer** settings to set the delay time from 1 – 15 seconds.
- **Restore defaults:** Will reset all camera or camcorder settings back to default values. Tap **OK** to complete this task.

View Your Pictures

After you take a photo, you can access the picture by tapping the thumbnail at bottom right corner of the screen. You can access various options from the Image Viewer. The Image Viewer uses your Gallery.

Note: If no icons are displayed on the screen, tap anywhere on the screen to reveal them.

CAMCORDER

In addition to taking photos, the camera also doubles as a camcorder that also allows you to record and view videos.

Shoot Video

Tip: When shooting video in direct sunlight or in bright conditions, it is recommended that you shoot your subject with the light source behind you.

1. From the Home screen, tap .
2. Tap to change to Camcorder Mode.
3. You can zoom in and out by tapping **Zoom** .
4. Tap **Record** to begin shooting video. The red light will change to the Stop while recording.
5. Tap to stop the recording and save the video file to the Image Viewer.
6. Once the file has been saved, tap the Image Viewer, then tap to play your video.
7. Press to return to the viewer.

CAMCORDER OPTIONS

Options are represented by icons across both sides of the screen.

Camera / Camcorder Mode: allows you to take a photo in various modes. Once you change the mode, the corresponding indicator appears at the top left of the display. Slide the button up for Camera, or down for Camcorder.

Brightness: Adjust the level of light allowed into the lens, using a slider bar.

Zoom: Zooms in and out using a slider bar.

Image viewer: Displays the last photo taken as a thumbnail so you can review the video and access various options.

Self-recording: Activate the front facing camera so you can take videos of yourself or video chat.

Auto focus mode: Turn auto focus On or Off.

Photo size: Adjust or change the resolution of your photos:

- HD (1280 x 720)
- VGA (640 x 480)
- QVGA (320 x 240)
- QCIF (176 x 144)
- YouTube
- MMS

Light mode: Turns the recording light On or Off. When you turn the light On, it will stay on continually while filming.

Settings:

Tag settings: Allows you to label your video with a location. You can also select preloaded labels by pressing the **New Label**.

- **Save to internal memory:** Tap to remove the checkmark if you would prefer your photos be saved to your SD card.

White balance settings: Sets lighting balance for the following environments: Auto, Daylight, Cloudy, Fluorescent or Incandescent.

Effect settings: Apply special effects to the photo; Normal, Black and White and Sepia.

Quality settings: Set the image quality to Super Fine, Fine or Normal.

Restore defaults: Will reset all camera or camcorder settings back to default values. Tap **OK** to complete this task.

View Your Videos

After you take a video, you can access it by tapping the thumbnail at bottom right corner of the screen. Various options can be reviewed from the Image Viewer. The Image Viewer uses your Gallery and the Video Player.

Note: If no icons are displayed on the screen, tap anywhere on the screen to reveal them.

GALLERY

The Gallery is where you view photos and play back videos. The Gallery also provides a number of options for editing, assigning and sharing photos.

1. From the Home screen tap ► **Gallery**.
2. All of the Albums will be displayed with the name and number of files.
3. Tap on an Album to view the contents.

View Pictures

Select a thumbnail to view the picture.

The following options are available at the top of the screen:

Camera: Returns to camera mode to take pictures.

Share: allows you to share the picture via Bluetooth, Flickr, Picasa, Messaging, Google+, Gmail, and more.

Options

- **Delete:** Deletes the picture.
- **Slideshow:** Plays a slideshow of all of your pictures.
- **Edit:** Provides editing features such as lighting options, photo effects, color options, doodling, cropping, red-eye correction and many other features.
- **Exif info:** Exchangeable image file (Exif) data is information and camera settings for each photo.
- **Rotate left:** Rotates the picture to the left.
- **Rotate right:** Rotates the picture to the right.
- **Crop:** Allows you to crop the picture by moving the blue box to the desired area.
- **Details:** Displays the details of a picture such as Title, Time, Width, Height, etc.
- **Set picture as:** Allows you to set the picture as a contact photo or wallpaper.

Note: If no icons are displayed on the screen, tap anywhere on the screen to reveal them.

View Videos

1. From the Home screen tap ► **Gallery**.
2. All of the Albums will be displayed with the name and number of files.
3. Select a video and tap to play the video.
4. Press for additional options:
   - **Delete:** To delete the video.
   - **Details:** To review time stamping details of the video.

MUSIC PLAYER

The Music Player is an application that can play music files. The music player supports files with extensions AAC, AAC+, eAAC+, MP3, WMA, 3GP, MP4, and M4A. Launching the Music Player allows you to navigate through your music library, play songs, and create playlists (music files bigger than 300 KB are displayed).

Play Music

1. Tap ► **Music**.
2. Tap a category at the top of the screen (Artists, Albums, Songs and Playlists) to view the available music files.
3. Scroll through the list of songs and tap to begin playing.

The following options are available when playing musing:

- Pause the song
- Start the song after being paused
- Press and hold to rewind the song. Tap to go to previous song.
- Press and hold to fast-forward the song. Tap to go to next song.
- Tap once to repeat all. Tap twice to repeat the currently playing song.
- Shuffle On: the current list of songs are randomly shuffled for playback.
- Takes you to the music player history.

Music Player Options

To access additional options while in the Music Player, press .

- **Library:** Takes you to the music library listed by songs.
- **Party shuffle:** Creates a shuffle play list from all songs stored in the player.
- **Add to playlist:** Adds the current song to a selected playlist.
- **Use as ringtone:** Allows you to set a music file to Phone ringtone, Caller ringtone, or Alarm tone.
- **Delete:** Deletes the song from the phone. Tap **OK** to complete this action.
- **Sound effects:** Select from different types of equalization such as Normal, Pop, Rock, Jazz, Dance, Classic, etc. Or customize the equalizer.

PLAYLISTS

Create playlists to group preferred music and genres for playback. Playlists can be created via the Android Music Player or from a 3rd party music application (such as Google Music) and then downloaded to the phone.

Create a Playlist

1. From the Home screen tap ► .
2. Tap the **Songs** tab.
3. Press and hold a song until an option menu appears.
4. Select **Add to playlist ► New**
5. Enter a name in the playlist field and tap **Save**.

Add Music to a Playlist

To add files to the playlist:

1. From the Music Player, tap the **Songs** tab.
2. Touch and hold the desired song.
3. Select **Add to playlist**.
4. Select the playlist. You will receive a notification that the song has been added.

Remove Music from a Playlist

To remove music files from a playlist:

1. From the Music Player, tap the **Playlist** tab.
2. Tap the playlist name in which to delete music.
3. Touch and hold the song you wish to delete.
4. Tap **Remove from playlist**.

GOOGLE PLAY MUSIC

From the Home screen, tap ► **Play Music**.

Note: If you have not created a Google account, you will need to in order to access this application.

Play Music

1. All music on your device and external SD card is displayed including Music folders that may contain multiple songs.
2. Google Play will open at the **Playlist** screen. You can swipe left or right to access the following categories:
   - Playlists, Recent, Artists, Albums, Songs and Genres.
3. Tap for the following options:
   - **Shuffle all:** Plays all of your music in a shuffled order.
   - **Settings:** View Open source licenses and the music version for the Play Music application.
   - **Help:** Takes you to the Google Support website.

VIDEO PLAYER

The Video Player application plays video files stored on your phone and microSD card.

1. Tap ► **Video Player**.
2. Tap on the video to begin play.

PLAY MOVIES & TV

With Google Play Movies & TV, you can rent thousands of different movies and television shows. You can watch instantly or download for watching offline at a later time.

1. From the Home screen, tap ► **Play Movies & TV**.
2. Log on to your Google account if you have not already done so.
3. Follow the on-screen instructions for renting and viewing movies.
4. Tap the **MOVIES** tab to view movies you can rent.
5. Tap the **TV SHOWS** tab to view shows you can rent.
6. Tap the **PERSONAL VIDEOS** tab to view movies you have on your phone or memory card.
7. Press for additional options.

10. Settings

This section explains the settings that are available to customize your device.

Accessing Settings

- From the Home screen, tap ► **Settings**.

– or –

- From the Home screen, pull the Notification Bar down. Tap in blue towards the top right corner.

WI-FI

Activate Wi-Fi

1. From the **Settings** screen, tap the ON/OFF slider, located to the right of the Wi-Fi field, to turn Wi-Fi ON.
2. Tap **Wi-Fi** to open the networks screen.
3. Tap **SCAN** to scan for available Wi-Fi networks.

Advanced Wi-Fi Settings

The advanced Wi-Fi settings allow you to set up and manage notifications and networks.

1. From the Wi-Fi screen, tap .
2. Tap **Advanced**.

BLUETOOTH

Activate Bluetooth, view or assign a device name, activate your phone so other Bluetooth devices can discover it, or scan for available Bluetooth devices with which to pair.

Activating Bluetooth

1. From the **Settings** screen, tap the ON/OFF slider, located to the right of the Bluetooth field, to turn Bluetooth ON.
2. Tap **Bluetooth** to open the Bluetooth screen.
3. Tap **SEARCH FOR DEVICES** to scan for available devices.

Bluetooth Settings

When Bluetooth is on, additional settings are available.

1. From the **Bluetooth** screen, tap ⋮.
    - **Rename phone:** Tap to create a name for your device. This is only available when Bluetooth is turned On.
    - **Visibility timeout:** Change the discovery time outs or how long the device stays Discoverable to other Bluetooth devices.
    - **Show received files:** Show the list of files received by using Bluetooth.

Data Usage

From this screen you can view your Mobile data usage and customize your data limits. From the **Settings** screen, select **Data usage**.

- **Mobile data:** Tap the the ON to turn your data access **ON** or **OFF**.
- **Set mobile data limit:** Tap to create a checkmark and enable a data limit. Then touch and drag the red limit bar to the GB limit that you desire.
- **Data statistics:** Tap the the ON to turn the collection of data statics **ON** or **OFF**.
- **Data usage cycle:** Tap the drop-down menu and select a date. The data usage displays as a visual (chart) and also displays a list of each application with a breakdown of how much data was used per application.
- Press ⋮ to display additional options. Tap to create a checkmark.
    - **Data roaming:** enables Data roaming on your device.
    - **Restrict background data:** restricts some apps and services from working unless you are connected to a Wi-Fi network.
    - **Show Wi-Fi usage:** displays a Wi-Fi tab that shows Wi-Fi usage.

Note: Data is measured by your device. Your service provider may account for data usage differently.

MORE SETTINGS

This tab displays additional wireless and network information.

- From the Home screen, tap ⋯ ► ⚙ ► **More...**

Airplane Mode

Airplane mode allows you to use many of your phone's features, such as Camera, Games and more, when you are prohibited from making or receiving calls or data.

1. Tap **Airplane mode** to create a checkmark next to the feature to activate.
2. Tap again to deselect and remove the **Airplane mode**.

Important! When your phone is in Airplane mode, it cannot send or receive any calls or access online information or applications.

VPN

The VPN settings menu allows you to set up and manage Virtual Private Networks (VPNs).

Add Basic VPN

Before using VPN, you must first set up a screen unlock PIN or password.

1. From the **Settings** screen tap **More... ► VPN ► Basic VPN ► Add VPN network**.
2. Enter a name for the VPN network in the **Name** field.
3. Select a VPN type from the **Type** drop-down menu.
4. Enter the **Server address** and any other required fields that are dependent upon the **Type** of VPN you selected.
5. Tap the **Show advanced options** check box to display additional VPN options.
6. Tap **Save** to save your VPN settings.

Add Advanced IPsec VPN

Before using VPN, you must first set up a screen unlock PIN or password.

1. From the **Settings** screen tap **More... ► VPN ► Advanced IPsec VPN**.
2. Tap **Add VPN Connection**.
3. Enter a password and tap **OK**.
4. Enter a name for the VPN connection in the **VPN connection name** field.
5. Select an IPsec type from the drop-down menu.
6. Enter all other required information.
7. Tap **Show advanced options** check box to display additional VPN options.
8. Tap **Save**.

Tethering & Portable Hotspot

This option allows you to share your phone's mobile data connection via USB or as a portable Wi-Fi hotspot.

- From the Home screen, tap ► ► **More...**

USB Tethering

1. From **Tethering and portable hotspots**.
2. Connect your phone to your PC using a USB cable.
3. Tap **USB tethering** to add a checkmark and activate the feature. **USB tethering** is displayed at the top of your screen.

Portable Wi-Fi Hotspot

1. From **Tethering and portable hotspots**.
2. Tap **Portable Wi-Fi hotspot** to create a checkmark and activate this feature.

Configure Wi-Fi Hotspot

1. From **Tethering and portable hotspots**.
2. Tap **Configure Wi-Fi hotspot**.
3. Edit the Network SSID, Security setting, Password, Show password and Hide my device.
4. Tap **Save**.

NFC

NFC (Near Field Communication) allows data exchange when you touch your device with another compatible device. This is used for applications such as Android Beam.

To activate NFC, follow these steps:

1. From the Home screen, tap ► ► **More...**
2. Tap **NFC** to create a checkmark and activate the feature.
3. When **NFC** is activated it will automatically enable **Android Beam**.

Wi-Fi Direct

Wi-Fi Direct allows device-to-device connections so you can transfer large amounts of data over a Wi-Fi connection.

1. From **Settings ► More...**
2. Tap **Wi-Fi direct** to create a checkmark and turn on peer-to-peer connectivity.

Wi-Fi Direct Settings

1. From **Settings ► More... ► Wi-Fi direct settings**.
2. Select an available device to connect with.
3. Tap **Connect**.

Mobile Networks

Before you use applications such as Google Maps to find your location or search for places of interest, you must enable the Mobile networks options.

- From the Home screen, tap ► ► **More... ► Mobile Networks**

Data Enabled

Tap this to create a checkmark and enable data access over Mobile networks.

Data Roaming

Data roaming allows you to connect to your service provider's partner networks and access data services when you are out of your service provider's area of coverage.

- Tap **Data roaming** to create a checkmark and activate the feature.

Access Point Names

To use Wi-Fi you need access to a wireless access point (hotspot).

- Your phone defaults as the Access Point.

SOUND

From this menu you can control the sounds on the phone.

- From the Home screen, tap ► ► **Sound**.

Volume

1. Select **Volumes**.
2. Touch and drag the slider to adjust the sound volume for Music, Ringtones and Alarms.
3. Tap **OK**.

Silent Mode

The Silent mode allows you to set your phone to play sound, vibrate, or mute.

1. Select **Silent mode**.
2. Select: Off, Vibrate or Mute

Phone Ringtone

This option allows you to set the ringtone.

1. Select **Phone ringtone**.
2. Tap on the desired ringtone.
3. Tap **OK**.

Message and Calendar Alerts

You can set different tones for the Message and Calendar alerts. Follow the same steps as the above Phone Ringtone section.

System Tone Settings

- From the Home screen, tap ► ► **Sound**.

Tap any of the following options to create a checkmark and activate the feature:

- **Touch sounds:** Makes a sound when you touch the screen.
- **Screen lock sound:** Makes a sound when your screen is locked or unlocked.
- **Vibrate on touch:** Makes a vibration when you tap soft keys and on certain UI interactions.

DISPLAY

In this menu, you can change various settings for the phone's display.

- From the Home screen, tap ► ► **Display**.

The following options display:

- **Brightness:** Configures the LCD Brightness levels. Drag the slider to adjust the brightness and tap **OK**.
- **Wallpaper:** Select from various types of wallpaper for your Home screen.
- **Auto-rotate screen:** Allows you to switch the display orientation automatically when you rotate the phone.
- **Sleep:** Adjusts the delay time before the screen automatically turns off and the phone is locked.
- **Font size:** Select which size of font is displayed.

STORAGE

From this menu you can view the memory allocation for the phone's memory as well as mount or unmount an SD card.

To view the memory allocation for your external SD card:

- From the Home screen, tap ► ► **Storage**.
- The available memory displays under the **Total space** heading for both Device memory and SD card.

SD Card

- Tap **Unmount SD card** to unmount your SD card so that you can safely remove it, then tap **OK**.

Erase SD Card

1. Tap **Erase SD card** to re-format your SD card. This will delete all data on your SD card.

Warning! Performing the next step will erase all data stored on the SD card.

2. Tap **Erase SD card** again.

Erase Phone Storage

1. Tap **Erase Phone Storage**. This will delete all data on your phone's memory.

Warning! Performing the next step will erase all data stored on your phone.

2. Tap **Erase Phone Storage** again.

BATTERY

See how much battery power is used for device activities.

- From the Home screen, tap ► ⚙ ► **Battery**.

The battery level displays in percentage. The amount of time the battery was used also displays. Battery usage displays in percentages per application.

- Tap **Screen**, **Android OS**, **Cell standby**, **Android System**, or any other listed application to view how it is affecting battery use.

tNote: Other applications may be running that affect battery use.

ECO MODE

Eco Mode is a power saving feature that allows you to manage your phone and conserve power.

- From the Home screen, tap ► ⚙ ► **Eco mode**.

1. Tap **Eco mode** to turn the power saving mode on or set at what stage in the battery life to activate the Eco Mode automatically.

Eco Mode Settings

Tap the following options to create a checkmark and conserve power:

- **Brightness:** Activates a minimum level of screen brightness.
- **Screen timeout:** Select a shorter period for the screen to remain on if inactive.
- **Bluetooth:** Turns off the Bluetooth signal when in Eco Mode.
- **Wi-Fi:** Turns off the Wi-Fi signal to save power.
- **GPS:** Turns off the GPS signal when in Eco Mode.
- **Auto sync:** Turns off the application syncing to conserve power.
- **Live Wallpapers:** Turns off live wallpapers when in Eco Mode.

APPS

You can download and install applications from Play Store. Apps is the application manager to review and manage applications.

- From the Home screen, tap ► ⚙ ► **Apps**.
- Select to view **Downloaded**, **On SD Card**, **Running** or **All** to display memory usage for each category of applications.
- The meter at the bottom of each tab shows used versus free memory.

You can select an application to view and update information, including memory usage, default settings, and permissions.

Running

View and control services running on your device.

1. Tap the **Running** tab to view all the applications that are currently running on the device.
2. Select an application to view information and options.

The following options display:

- **Stop:** Stops the application from running on the device. This is usually done prior to uninstalling the application.
- **Report:** Report failure and other application information.

Warning! Not all services can be stopped. Stopping services may have undesirable consequences on the application or Android Operating System.

ACCOUNTS & SYNC

This menu allows you to set up, manage, and synchronize accounts, including your Google and email accounts.

- From the Home screen, tap ► ► **Accounts & Sync**.

Synchronizing Accounts

Select the account you want to edit. Then select the items associated with this account that you want to synchronize.

Adding an Account

1. Tap **Add Account**.
2. Select the type of account to add.
3. Follow the prompts to enter your credentials and set up the account.

Removing an Account

Important! Removing an account also deletes all of its messages, contacts, and other data from the device.

Select the account you want to delete.

1. Tap ► **Remove account**.
2. Confirm by tapping **Remove account** again.

LOCATION SERVICES

The Location Services allows you to set up how the phone will determine your location.

- From the Home screen, tap ► ► **Location Services**.

Tap any of the following options to create a checkmark and activate the service:

- **Google's location service:** allows applications to use data from mobile networks and Wi-Fi to help determine your location.
- **GPS Satellites:** allows applications to use GPS to pinpoint your location.
- **Location & Google search:** allows Google to use your location data for improved search results and other services.

SECURITY

The Security settings allow you to determine the security level for your phone.

- From the Home screen, tap ► ► **Security**.

Screen Lock

Choose settings for unlocking your screen.

1. Tap **Screen lock** for these options:
   - **None:** No lock protection will be applied to your phone, the screen will never lock.
   - **Tap:** Allows the screen to be unlocked by tapping twice at the lock screen
   - **Face Unlock:** Look at your phone to unlock it.
   - **Pattern:** A screen unlock pattern is a touch gesture you create and use to unlock your device. Follow the prompts to create or change your screen unlock pattern.
   - **PIN:** Select a PIN to use for unlocking the screen.
   - **Password:** Create a password for unlocking the screen.

Automatically Lock

Tap to select how long after your screen shuts off, does your phone go into lock mode.

Power Button Instantly Locks

Tap this box to remove the checkmark and disable the ability to press the power button in order to instantly lock your phone.

Owner Info

This option allows you to show owner information on the lock screen. You can also enter text to display on the lock screen.

1. From the **Security** screen, tap **Owner info**.
2. Tap the **Show owner info on lock screen** checkbox to create a checkmark if you want your owner information displayed.
3. Enter text that you would like displayed on your lock screen and tap .

Encrypt Phone

Encrypting your phone mean you will be required to enter a numeric PIN or password to decrypt your phone each time you power it on.

1. From the **Security** screen, tap **Encrypt Phone**. For more information, read the help screen.
2. Tap **Encrypt phone**.

Warning: Make sure your battery is charged at 80 percent or more as the encryption can take an hour or more. Once you encrypt your phone you cannot un-encrypt it without doing a factory reset which will erase all data on your phone.

Set up SIM Card Lock

Prevent another user from using your SIM card by protecting the information using a PIN code. When enabled, your phone will ask for a PIN number each time you use the phone. Using this option you can also change your SIM PIN number.

1. From the **Security** screen, tap **Set up SIM card lock**.
2. Tap **Lock SIM card** and enter your SIM PIN code, then tap **OK**.

Note: You must activate Lock SIM card before you can change your SIM PIN code.

3. Tap **Change SIM PIN**.
4. Enter your old SIM PIN code and tap **OK**.
5. Enter your new SIM PIN code and tap **OK**.
6. Re-type your new SIM PIN code and tap **OK**.

Make Passwords Visible

When enabled, password characters display briefly as you touch them while entering passwords.

From the **Security** screen:

- Tap **Make passwords visible** to create a checkmark and enable the display of password characters.

Device Administrators

The Device Administration feature allows you to select one or more administration applications that control your device for security purposes. These applications enforce remote or local device security policies. Some of the features the device administration application might control are:

- 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.

To access this feature, follow these steps:

1. From the Home screen, tap ► ► **Security**.
2. Tap **Device administrators**.
3. Select a device administrator and follow the prompts. If no device administrators are listed, you can download them from the Play Store.

Unknown Sources

This feature allows you to download and install non-Market applications.

- From the **Security** screen, **Unknown sources**.

A check mark is displayed to indicate it is active.

Warning! Enabling this option causes your phone and personal data to be more vulnerable to attack by applications from unknown sources.

Trusted Credentials

If a Certification Authority (CA) certificate becomes compromised or for some other reason you do not trust it, you can disable or remove it.

- From the **Security** screen ► **Trusted Credentials**.

The trusted credentials screen has two tabs:

- **System:** Displays CA certificates that are permanently installed in the memory of your device.
- **User:** Displays any CA certificates that you installed, for example, in the process of installing a client certificate.

To disable or remove certificates, follow these steps.

1. Tap a CA certificate to examine its details.
2. Scroll to the bottom of the details screen and tap **Disable** to disable a System certificate or **Remove** to remove a User certificate.
3. Tap **OK** to return to the certificate list. When enabled, a check mark appears in the check box.

Warning! When you disable a system CA certificate, the **Disable** button changes to **Enable**, so you can enable the certificate again, if necessary. When you remove a user-installed CA certificate, it is permanently deleted and must be re-installed, if needed.

Install from Storage

Install encrypted certificates from an installed memory card.

1. From the **Security** screen, tap **Install from storage**.
2. Tap **Install from device storage**, then choose a certificate and follow the prompts to install.

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

Clear Credentials

Clear stored credentials. This setting is only accessible if you have installed encrypted certificates.

1. From the **Security screen**, tap **Clear Credentials**.
2. Tap **Clear credentials** to remove all certificates.

LANGUAGE & INPUT

This menu allows you to configure the phone's language and input methods.

- From the Home screen, tap ► ► **Language & Input**.

Language

You can select English or Spanish to be used on your device by following these steps:

1. From the **Language & input** screen, tap **Language**.
2. Select English or Spanish.

Personal Dictionary

You can industry terms or slang that you use often to your own dictionary so that it will show up while composing messages.

1. From the **Language & input** screen, tap **Personal dictionary**.
2. Tap **Add** + at the bottom of the screen and follow the instructions.

Google Voice Typing Settings

1. From the **Language and Input** screen, tap ⚙ to the right of Google voice typing.
2. The following options are available:
   - **Select input languages:** tap on a language that you want to input. Select Automatic to use English for US.
   - **Block offensive words:** tap to create a checkmark and enable the blocking of recognized offensive words from the results of your voice-input Google typing.

Physical Keyboard Settings

1. From the **Language and Input** screen, tap the ⚙ to the right of Physical Keyboard.
2. The following options are available:
   - **Vibrate on Keypress:** Enables vibration feedback when you tap an on-screen key.
   - **Sound on Keypress:** Enables sound feedback when typing on the keyboard.
   - **My Dictionary:** Allows you to keep a list of frequently used words used for predictive text.
   - **Add-On Manager:** Manage the priority of English versus Spanish languages for the keyboard.
   - **Themes:** You can change the box of the predictive text to **Bright Theme** (white box) or **Dark Theme** (black box).
   - **Automatic Text Replacement (ATR):** Tapping this option will create a checkmark to enable ATR.
   - **Shortcuts and Expansions:** Create shortcuts by using acronyms to create text that you use on a consistent basis when composing email and text messages. For example, you can create the shortcut ‘hru’ that will expand to “Hi, how are you?”
     1. Tap ⋮ ► **Add**.
     2. Follow the prompts and select **OK** when done.
   - **Auto Correction:** Enables Auto Correct to fix spelling mistakes.
   - **Auto Correction Modes:** Select the degree of usage for Auto Correction.
   - **Ext. Character Bubble:** Tap this to create a checkmark and enable the feature that is used while in the web browser. When entering a web address, press and hold the .com key and a list of common prefixes and suffixes for web addresses will appear to assist with typing in addresses.
   - **Help:** Provides a brief tutorial for using several of the features with the Keyboard Setting.

Voice Search

This menu allows you to set preferences when using the Voice Search feature.

1. From the Home screen, tap ► ► **Language & input** ► **Voice Search**.
2. The following options are available:
   - **Language:** Select the preferred language for your voice input.
   - **SafeSearch:** Set the level of sensitivity filter for explicit images that may appear when doing a Google Search by Voice.
   - **Block Offensive Words:** Hide recognized offensive voice results.
   - **Personalized Recognition:** Tapping this will create a checkmark to enable the feature that will improve speech recognition accuracy.
   - **Google Account Dashboard:** Takes you directly to your Google account to manage.

Text-to-Speech Output

Text-to-speech output provides audible readout of text, for example, the contents of email messages.

1. From the Home screen, tap ► ► **Language & input** ► **Text-to-Speech Output**.
2. Tap next to the Google TTS engine to configure the following settings:
   - **Language:** Set the language for spoken text.
   - **Settings for Google Text-to-speech Engine:** View Open Source Licenses.
3. From the **Text-to speech output** screen, access the following options:
   - **Speech rate:** Set the speed at which the text is spoken.
   - **Listen to an example:** Play a sample of speech synthesis.

BACKUP & RESET

Back Up My Data

By setting this option, the Google server will back up all of your settings and data.

1. From the Home screen, tap ► ► **Backup & Reset**.
2. Tap **Back up my data** to enable or disable back up of application data, WI-Fi passwords and other settings to the Google server.

Backup Account

If you have enabled the **Back up my data** option, then the **Backup account** option is available.

1. From the **Backup & Reset** screen, tap **Backup account**.
2. Tap **Add account** to set your Google Gmail account to be backed up to the Google server or select an account that is already present.

Automatic Restore

By setting this option, when you reinstall an application, all of your settings and data that has been backed up will be restored.

1. From the **Backup & Reset** screen, tap **Automatic restore** to enable or disable automatic restoration of settings from the Google server.

Factory Data Reset

From this menu you can reset your phone to the factory default settings.

1. From the **Backup & Reset** screen, tap **Factory data reset**.
2. Tap **Reset phone**.

Warning! Performing a Factory data reset will erase all data from your phone. It will not erase current system software, bundled applications, and data stored on your external microSD card.

DATE & TIME

This menu allows you to change the current time and date displayed.

1. From the Home screen, tap ► ► **Date & time**.
   - Tap **Automatic date and time** to create a checkmark and enable the network to set the date and time.
   - Tap **Automatic time zone** to create a checkmark and enable the network to set the time zone.
2. To set the **Date**, **Time** and **Time Zone** manually, you must disable the Automatic Date & Time and Time Zone options above.
3. Tap **Use 24-hour format** to create a checkmark and enable this format.
4. Tap **Select date format** to select how the date will be displayed.

ACCESSIBILITY

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

Note: You can download accessibility applications from Play Store and manage their use here.

1. From the Home screen, tap ► ► **Accessibility**; the following options are available:
   - **TalkBack:** When enabled, TalkBack speaks feedback to help blind and low-vision users.
   - **Huge text:** Tap to create a checkmark and enable this feature.
   - **Power button ends calls:** Tap to create a checkmark and enable this feature.
   - **Auto-rotate screen:** Tap to create a checkmark and enable this feature to automatically rotate the screen from landscape to portrait when you rotate your phone.
   - **Speak passwords:** Tap to create a checkmark and enable this feature which reads out password information.
   - **Touch and hold delay:** Select a time interval for this action; Short, Medium or Long.
   - **Install Web Scripts:** To allow apps to install scripts from Google that make their Web content more accessible. Tap **Allow**.

DEVELOPER OPTIONS

- From the Home screen, tap ► ► **Developer options**.

USB Debugging

When enabled, allows debugging when the device is attached to a PC by a USB cable.

- From the **Developer options** screen, tap **USB debugging** to create a checkmark and enable this setting.

Note: This setting is used for development purposes.

Development Device ID

- The identification number for your device when using it as a development tool displays in this field.

Stay Awake

- Tap this feature to create a checkmark and enable the phone to never sleep while charging.

Allow Mock Locations

This setting is used by developers when developing location-based applications.

- From the **Developer options** screen, tap **Allow mock locations** to create a checkmark and enable this feature.

Note: This setting is used for development purposes.

Desktop Backup Password

Protect the desktop with a backup password ID.

1. From the **Developer Options** screen, tap **Desktop backup password**.
2. Enter the current full backup password, then the new password, then re-enter the new password again.
3. Tap **Save**.

User Interface Options

Configure the user interface by setting the behavior for the way the screen behaves when using applications or displaying data.

1. From the Home screen, tap ► ► **Developer options**.
2. Tap the check box next to each option to enable:
   - **Strict mode enabled:** Makes the screen flash when applications perform long operations on the main thread.
   - **Pointer location:** Highlights the data that was touched on the screen.
   - **Show touches:** Displays visual feedback for touch interactions on the screen.
   - **Show screen updates:** Areas of the screen flash when they update.
   - **Show CPU usage:** Screen highlights the current CPU usage.
   - **Force GPU rendering:** Enable to use 2D hardware acceleration in applications.
   - **Window animation scale:** Configure the scale for animation (ranges from off to 10x).
   - **Transition animation scale:** Configure the scale for transitioning when using animation (ranges from off to 10x).

Apps

1. From the Home screen, tap ► ► **Developer options**.
2. Tap the check box next to each option to enable:
   - **Don't keep activities:** Destroy every activity as soon as the user leaves the application.
   - **Background processes limit:** Set the number of processes that can run in the background.
   - **Show all ANRs:** Enables a prompt to display when applications running in the background are not responding.

AT&T SOFTWARE UPDATE

1. From the Home screen, tap ► ► **AT&T Software Update**.
2. Select **Check for Updates** to see if there is a software update available. Follow the prompts to download.

   - or -

   Select **Software Update by SD Card**. Follow the prompts to download using your microSD card.

ABOUT PHONE

This menu contains technically specific information such as the model number, firmware version, baseband version, kernel version and software build number.

1. From the Home screen, tap ► ► **About phone**.
2. The following information displays:
   - **Status:** Displays the battery status, the level of the battery (percentage), network, signal strength, mobile network type, service state, roaming status, mobile network state, My phone number, IMEI number, IMEI SV, IP address, Wi-Fi MAC address, Bluetooth address, Serial number, Up time and Lifetime calling status.
   - **Legal information:** This option displays information about Open source licenses and Google legal information. Provides copyright and legal distribution information and facts, Google Terms of Service, Terms of Service for Android-powered Phones and other reference information.
   - **Model number:** Displays the phone's model number.
   - **Android version:** Displays the Android version loaded on the handset.
   - **Baseband version:** Displays the baseband version loaded on the handset.
   - **Kernel version:** Displays the kernel version loaded on the handset.
   - **Build number:** Displays the software build number.

Note: Baseband, kernel and build numbers are usually used for updates to the handset or support. For additional information please contact your AT&T service representative.

11. Product Safety & Warranty

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 the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet.

TIA Safety Information

The following is the complete TIA Safety Information for wireless handheld phones.

Exposure to Radio Frequency Signal Your wireless handheld portable phone is a low power radio transmitter and receiver. When ON, it receives and sends out Radio Frequency (RF) signals.

In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) * NCRP Report 86 (1986) and Measurements; InterICNIRP (1996)

American National Standards Institute; National Council on Radiation Protection;

International Commission on Non- Ionizing Radiation Protection.

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1). The design of your phone complies with the FCC guidelines (and those standards).

Antenna Care

Use only the supplied internal antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on Efficient Operation For your phone to operate most efficiently:

Don’t touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Driving

Check the laws and regulations on the use of wireless phones in the areas where you drive and always obey them. Also, if using your phone while driving, please observe the following:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation and/or one-touch, speed dialing, and auto answer modes.
- Pull off the road and park before placing or answering a call.

Electronic Devices

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Therefore, use of your phone must be restricted in certain situations.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6) inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Never come closer than six (6) inches to a person with a heart pacemaker implant when using your phone. Doing so could result in interference with the function of the pacemaker.

Persons with pacemakers:

- ALWAYS keep the phone more than six (6) inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

Other Medical Devices

If you use any other personal medical device, 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.

Health Care Facilities

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.

Vehicles

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

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio”. Obey all signs and instructions.

Potentially Explosive Atmosphere

Turn your phone 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. Areas with a potentially explosive atmosphere are often, but not always marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or 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.

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

SAFETY INFORMATION

Please read and observe the following information for safe and proper use of your phone and to prevent damage. Also, keep the user guide in an accessible place at all times after reading it.

Charger and Adapter Safety

- Charger and Adapter are intended for indoor use only.
- Insert the battery pack charger vertically into the power socket.
- Only use approved battery charger. Otherwise you may cause serious damage to your phone.
- Use the correct adapter for your phone when using the battery pack charger abroad.

Battery Information and Care

- Please dispose off your battery properly or take it to your local wireless carrier for recycling.
- The battery doesn’t need to be empty before recharging.
- Use only NEC-approved Chagres specific to your model since they are designed to maximize battery life.
- Do not disassemble or short-circuit the battery.
- Keep the battery metal contacts clean
- Replace the battery when it no longer provides acceptable performance. The battery can be charged several hundred times before replacement.
- Recharge the battery after long periods of non-use to maximize battery life.
- Battery life will vary due to usage patterns and environmental conditions.
- Use of extended backlighting, Browser, and data connectivity kits affect battery life and talk/standby times.
- The self protection function of the battery cuts the power of the phone when its operation is in an abnormal state. In this case, remove the battery from the phone, reinstall it, and turn the phone on.

Explosion, Shock, and Fire Hazards

- Do not put your phone in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it's dirty.
- When using the power plug, ensure that it is firmly connected if not, it may cause excessive heat or fire.
- If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Always cover the receptacle when not in use.
- Do not short circuit the battery. Metallic articles such as coin paperclip or pen in your pocket or bag may short-circuit the + and – terminals of the battery (metal strips on the battery) upon moving. Short-circuit of the terminal may damage the battery and cause an explosion.
- Do not disassemble or crush the battery. It may cause a fire.

General Notice

- Using damage battery or placing a battery in your mouth may cause serious injury.
- Do not place items containing magnetic components such as a credit card, phone card, bankbook, or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- When the phone is not used for a long period of time, store it in a safe place with the power cord unplugged.
- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an NEC Authorized Service Center to replace the damaged antenna.
- Do not paint your phone.
- The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ringtones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- When you use the phone in public places, set the ring tone to vibration so you don't disturb others.
- Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

WARNING! IMPORTANT SAFETY INFORMATION

Avoiding Hearing Damage

Permanent hearing loss may occur if you use your phone and/or headset at a high volume. Set the volume to a safe level. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked.

The louder the volume, the less time is required before your hearing could be affected. Hearing experts suggest that to protect your hearing:

- Limit the amount of time you use your phone and/or headset at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you cannot hear people speaking with you.
- For information about how to set a maximum volume limit on your phone, see the features guide for your phone.

Using Your Phone Safely

Use of your phone while operating a vehicle is not recommended and is illegal in some areas. Be careful and attentive while driving. Stop using your phone if you find it disruptive or distracting while operating any type of vehicle or performing any other activity that requires your full attention.

Using Headsets Safely

Use of headsets to listen to music while operating a vehicle is not recommended and is illegal in some areas. Be careful and attentive while driving. Stop using this device if you find it disruptive or distracting while operating any type of vehicle or performing any other activity that requires your full attention.

FDA CONSUMER UPDATE

The U.S. Food and Drug Administration's Center for Devices and Radiological Health Consumer Update on Mobile Phones:

1. **Do wireless phones pose a health hazard?**

   The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of Radio Frequency (RF) energy in the microwave range while being used. They also emit very low levels of RF when in standby mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research.

   In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. **What is the FDA's role concerning the safety of wireless phones?**

   Under the law, the FDA does not review the safety of radiation emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit Radio Frequency (RF) energy at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace, or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the wireless phone industry to take a number of steps, including the following:

   - Support needed research into possible biological effects of RF of the type emitted by wireless phones;
   - Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
   - Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

- The FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:
    - National Institute for Occupational Safety and Health Environmental Protection Agency
    - Occupational Safety and Health Administration
    - National Telecommunications and information Administration
    - The National Institutes of Health participates in some interagency working group activities, as well. The FDA shares regulatory responsibilities for wireless phones with the Federal Communications
    - Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. The FCC relies on the FDA and other health agencies for safety questions about wireless phones.
    - The FCC also regulates the base stations that the wireless phone networks rely upon.
    - While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subjects of this update?

The term “wireless phone” refers here to handheld wireless phones with built-in antennas, often called “cell”, “mobile”, or “PCS” phones. These types of wireless phones can expose the user to measurable Radio Frequency (RF) energy because of the short distance between the phone and the user’s head. These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flows in their research methods.

Animal experiments investigating the effects of Radio Frequency (RF) energy exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day.

These conditions are not similar to the conditions under which people use wireless phones, so we do not know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more year’s follow-up may be needed to provide answers about some health effects, such as cancer.

This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop — if they do — may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is the FDA doing to find out more about the possible health effects of wireless phone RF?

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

The FDA has been a leading participant in the World Health Organization International Electro Magnetic

Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on EMF issues. The FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research And Development Agreement (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA funded research is conducted through contracts with independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much Radio Frequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit Radio Frequency (RF) energy exposures.

The FCC established these guidelines in consultation with the FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless phones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has the FDA done to measure the Radio Frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the Radio Frequency (RF) energy exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques", sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or mill watts/g) of matter.

This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to Radio Frequency energy from my wireless phone?

If there is a risk from these products — and at this point we do not know that there is — it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to Radio Frequency (RF) energy. Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

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

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

11. What about wireless phone interference with medical equipment?

Radio Frequency (RF) energy from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure Electro Magnetic Interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by the FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

The FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a “compatible” phone and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

12. Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones
(http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm)

Federal Communications Commission (FCC) RF Safety Program (http://www.fcc.gov/oet/rfsafety)

International Commission on Non-Ionizing Radiation Protection (http://www.icnirp.de)

World Health Organization (WHO) International EMF Project (http://www.who.int/emf)

National Radiological Protection Board (UK) (http://www.hpa.org.uk/radiation/)

Important Driver Safety Tips

Your wireless phone gives you the powerful ability to communicate by voice almost anywhere, anytime. An important responsibility accompanies the benefits of wireless phones, one that every user must uphold. When operating a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speakerphone accessory, take advantage of these devices if available to you.
3. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Don’t take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a “to-do” list while driving a car, you are not watching where you are going. It is common sense. Do not get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light, or otherwise stationary. But if you need to dial while driving, follow this simple tip - dial only a few numbers, check the road and your mirrors then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations, which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations -- with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard, or medical emergency. Remember, it’s a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a “Good Samaritan” in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless nonemergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

The above tips are meant as general guidelines. Before deciding to use your mobile device while operating a vehicle, it is recommended that you consult your applicable jurisdiction’s local laws or other regulations regarding such use. Such laws or other regulations may prohibit or otherwise restrict the manner in which a driver may use his or her phone while operating a vehicle.

CONSUMER INFORMATION ON SAR (SPECIFIC ABSORPTION RATE)

This Model Phone Meets the Government's Requirements for Exposure to Radio Waves. Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government.

These FCC exposure limits are derived from the recommendations of two expert organizations, the National 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 exposure Limit for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or 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 exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value.

Because the phone is designed to operate at multiple power levels to use only the power required to reach the network, in general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model.

This device was tested for typical body-worn operations with the back of the phone kept 0.79 inches (2.0 cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.79 inches (2.0 cm) must be maintained between the user s body and the back of the phone. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain 0.79 inches (2.0 cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. The highest SAR value for this model phone when tested for use at the ear is 0.70 W/kg and when worn on the body, is 0.57 W/kg. While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC

ID A98-RSZ3446

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 information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at http:// www.ctia.org/

- *In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Regulations for Wireless Devices

On July 10, 2003, the U.S.

Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users to find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones 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 phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.

In the example shown, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone.

"Normal usage" in this context is defined as a signal quality that's acceptable for normal operation. The M mark is intended to be synonymous with the U mark.

The T mark is intended to be synonymous with the UT mark.

The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

When you're talking over the cell phone, it's recommended you'd turn the BT (Bluetooth®) mode off for HAC.

According to HAC policy (NEC Terrain), we state this handset has not been rated for hearing aid compatibility with respect to the Wi-Fi capability.

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. f 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.

Note: The user who makes changes or modifications to the unit without the express approval by the manufacturer will void user authority to operate the equipment.

12 MONTH LIMITED WARRANTY

Limited Warranty

1. What products may be covered by this limited warranty?

   The following products (the “Products” or the “Product”) purchased through an NEC Corporation of America authorized dealer (the “Dealer”) in the United States, may be covered by this warranty:

   NEC TERRAIN WIRELESS PHONE

   And Included Accessories

2. What does this warranty cover?

   NEC Corporation of America warrants to the original end-user product purchaser (“You”) that the Products will reasonably conform to the applicable published specifications in effect at the time of shipment from NEC Corporation of America to the Dealer, and that the Products will be free from defects in materials or workmanship that result in product failure under normal use during the warranty period described in Paragraph 4.

3. When does your warranty begin?

   The warranty period will begin on the date you purchase the product. Dated proof of purchase is necessary to accompany and product returned for warranty service consideration. Valid proof of purchase must identify the point of purchase, date of purchase, product model or trade name, and Electronic Serial Number.

4. How long does the coverage last?

   The warranty period for the product is: TWELVE (12) MONTH’S

   Any products repaired or replaced under the terms of this warranty are covered under the warranty for the remainder of the original warranty period or ninety (90) days from the date of service return shipping, whichever is longer.

5. What will the manufacturer do if the product becomes defective in materials or workmanship during the warranty period?

   If any product covered under this warranty becomes defective in materials or workmanship resulting in product failure during the applicable warranty period, NEC Corporation of America will, at its option, either repair the defective product without charge for parts and labor, or provide a replacement in exchange for the defective Product.

6. What is not covered by this warranty?

   (a) THIS WARRANTY DOES NOT EXTEND TO:

   (i) Product damaged from external causes such as fire, flooding, heat, dirt, sand, static electricity, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

   (ii) Products which have been subjected to misuse, accident, physical damage, improper installation, abnormal operation or handling, neglect, inundation, improper installation or repair or improper storage, or;

   (iii) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;

   (iv) Damage caused by computer viruses, or;

   (v) Products which have been damaged due to repair, altered, or modified by anyone other than an AUTHORIZED service warranty component-level representative of NEC Corporation of America, or;

   (vi) Defects caused by components, parts, or accessories not compatible with the warranted Product, or;

(vii) Products whose warranty/quality labels, product serial number plates or electronic serial numbershave been removed, altered, or rendered illegible, or;

(viii) Accessory items such cases, etc., or;

(ix) Products shipped to NEC Corporation of America for repair from outside the United States, or;

(×) Defects in appearance, cosmetic, decorative, or structural items including framing and non- operative parts.

(b) ANY OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS YOUR SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVELIMITATION MAY NOT APPLY TO YOU.

(c) NEC CORPORATION OF AMERICA'S TOTAL LIABILITY FOR DAMAGES FOR ANY CAUSE RELATED TO OR ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, WHETHER IN CONTRACT, NEGLIGENCE, STRICT TORT, OR BASED ON ANY OTHER LEGAL THEORY, SHALL NOT EXCEED THE ORIGINAL PRICE PAID FOR THE PRODUCT LESS A REASONABLE AMOUNT FOR USAGE.

(d) IN NO CASE SHALL NEC CORPORATION OF AMERICA BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF PROFITS, LOSS OF SAVINGS OR REVENUES, INABILITY TO USE THE PRODUCTS OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, CLAIMS BY THIRD PARTIES OTHER THAN YOU, AND INJURY TO PROPERTY. THESE LIMITATIONS DO NOT APPLY TO CLAIMS FOR PERSONAL INJURY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

(e) THE REMEDIES CONTAINED HEREIN ARE YOUR SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY.

7. How do you get warranty service?

   If your product requires warranty service, it must be returned to a NEC Corporation of America Distribution Center with shipping paid by You, along with a description of the Product malfunction or difficulty. You are required to substantiate warranty status with a dated proof of purchase (as explained in item #3), with the IMEI (International Mobile station Equipment Identity).

   You may contact NEC Corporation of America by calling (800) 637-5917 to obtain the address of the nearest NEC Corporation of America Distribution Center. NEC Corporation of America assumes no risk for damage or loss in transit. If, in NEC Corporation of America's sole opinion, the Product failure is not covered under this warranty, or proof of purchase does not meet the terms of this warranty, you will be notified and your authorization will be requested for any further repair activity. Products repaired under warranty will be returned to you, transportation prepaid. In all other cases, you will be required to pay return shipping costs.

8. How does state law apply to this warranty?

   This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

9. This warranty is the entire agreement.

   Unless modified in writing and signed by both You and NEC Corporation of America, this warranty is understood to be the complete and exclusive agreement.

12. Legal Notices

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