

Decline a call

You can choose to decline an incoming call. If you are using an app, a pop-up screen is displayed for the incoming call.

- On the incoming call screen, drag  **Decline** to the left to reject the call and send it to your voicemail.



TIP On the incoming pop-up screen, tap  **Decline** to reject the call and send it to your voicemail.

Decline with a message

You can choose to decline an incoming call with a text message response.

- On the incoming call screen, drag **Send message** upward and select a message.



TIP On the incoming call pop-up screen, tap **Send message** and select a message.

End a call

- Tap  **End call** when you are ready to end your call.



Actions while on a call

You can adjust call volume, switch to a headset or speaker, and even multitask while on a call.

- Press the **Volume** keys to increase or decrease the volume.

Switch to headset or speaker

Listen to the call using the speaker or through a Bluetooth® headset (not included).

- Tap  **Speaker** to hear the caller using the speaker or tap  **Bluetooth** to hear the caller using a Bluetooth headset.

Multitask

If you exit the call screen to use another app, your active call is indicated in the Status bar.

To return to the call screen:



- Drag the Status bar down to display the Notification panel and tap the call.

To end a call while multitasking:

- Drag the Status bar down to display the Notification panel, and then tap  **End call**.



Call background

Select a picture or video to show when you make or receive a call.

- From  **Phone**, tap  **More options** > **Settings** > **Call background** for the following options:
 - **Layout:** Choose how to show caller info when the person has a profile picture.
 - **Background:** Choose a photo to display during a call.

Call pop-up settings

When calls are received while using other apps, they can be displayed as pop-ups.


- From  **Phone**, tap  **More options** > **Settings** > **Call display while using apps**. The following options are available:
 - **Full screen:** Display an incoming call in the full screen Phone app.
 - **Small pop-up:** Display an incoming call as a pop-up at the top of the screen.
 - **Mini pop-up:** Display an incoming call as a smaller pop-up.
 - **Keep calls in pop-up:** Enable this option to keep calls in the pop-up after they are answered.

Manage calls

Your calls are recorded in a call log. You can set up speed dials, block numbers, and use voicemail.


Call log

The numbers of the calls you have dialed, received, or missed are stored in the Call log.

- From  **Phone**, tap **Recents**. A list of recent calls is displayed. If the caller is in your Contacts list, the caller's name is displayed.



Save a contact from a recent call

Use recent call information to create a contact or update your Contacts list.

1. From  **Phone**, tap **Recents**.
2. Tap the call that contains the information that you want to save to your Contacts list, and tap **Add to contacts**.
3. Tap **Create new contact** or **Update existing contact**.





Delete call records




To delete Call log entries:

1. From  **Phone**, tap **Recents**.
2. Touch and hold the call you want to delete from the Call log.
3. Tap  **Delete**.

Block a number





By adding a caller to your Block list, future calls from this number are sent directly to your voicemail, and messages are not received.

1. From  **Phone**, tap **Recents**.
2. Tap the caller you want to add to the Block list, and then tap  **Details**.
3. Tap  **Block**, or  **More** > **Block contact** and confirm when prompted.

 **TIP** You can also modify your Block list in Settings. From  **Phone**, tap  **More options** > **Settings** > **Block numbers**.


Speed dial

You can assign a shortcut number to a contact for speed dialing their default number.

1. From  **Phone**, tap **Keypad** >  **More options** > **Speed dial numbers**. The Speed dial numbers screen displays the reserved speed dial numbers.
2. Tap an unassigned number.
 - Tap  **Menu** to select a different Speed dial number than the next one in sequence.
 - Number 1 is reserved for Voicemail.
3. Type in a name or number, or tap  **Add from Contacts** to assign a contact to the number.
 - The selected contact is displayed in the Speed dial number box.



Make a call with Speed dial

You can make a call using Speed dial.

- From  **Phone**, touch and hold the Speed dial number.
 - If the Speed dial number is more than one digit long, enter the first digits, and then hold the last digit.


Remove a Speed dial number

You can remove an assigned Speed dial number.

1. From  **Phone**, tap  **More options** > **Speed dial numbers**.
2. Tap  **Delete** by the contact you want to remove from Speed dial.

Emergency calls

You can dial the emergency telephone number in your region regardless of the phone's service status. If your phone is not activated, you can only make an emergency call.

1. From  **Phone**, enter the emergency telephone number (911 in North America) and tap **Call**.
2. Complete your call. During this type of call, you have access to most in-call features.



TIP The emergency telephone number can be dialed even if the phone is locked, allowing anyone to use your phone to call for help in an emergency. When accessed from a locked screen, only the emergency calling feature is accessible to the caller. The rest of the phone remains secured.

Phone settings

These settings allow you to modify settings associated with the Phone app.





- From  **Phone**, tap  **More options** > **Settings**.

Optional calling services

Your wireless carrier and service plan may support the following calling services.





Place a multi-party call

Make another call while a call is in progress. Options may vary by carrier.

1. From the active call, tap  **Add call** to dial the second call.
2. Dial the new number and tap  **Call**. When the call is answered:
 - Tap  **Swap** or the **On hold** number to switch between the two calls.
 - Tap  **Merge** to hear both callers at once (multi-conferencing).

Video calls

To make Video calls:

- Tap  **Phone**, enter a number, and then tap  **Video call** or  **Video call** or  **Video call**.





NOTE Not all devices support video calling. The receiver has the option to accept the video call or answer the call as a regular voice call.

Real Time Text (RTT)

Type back and forth in real time with the other person while on a call.

You can use RTT whenever you are calling someone whose phone also supports RTT or is connected to a teletypewriter (TTY) device. The RTT icon appears on all incoming RTT calls.

1. From  **Phone**, tap  **More options** > **Settings**.
2. Tap **Real time text** for the following options:
 - **RTT call button**: Choose a visibility option for the RTT call button.
 - **Use external TTY keyboard**: Hide the RTT keyboard when an external TTY keyboard is connected.
 - **TTY mode**: Choose the preferred TTY mode for the keyboard in use.



Samsung Health

Use Samsung Health™ to plan, track various aspects of daily life contributing to well-being such as physical activity, diet, and sleep. For more information, visit samsung.com/us/support/owners/app/samsung-health.



NOTE The information gathered from this device, Samsung Health, or related software is not intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment or prevention of disease.

The accuracy of the information and data provided by this device and its related software, may be affected by factors such as environmental conditions, specific activity performed while using/wearing the device, settings of the device, user configuration/user-provided information, and other end-user interactions.

Before you start exercising

Although the Samsung Health application is a great companion to your exercise routine, it is always best to make sure you consult with your physician before beginning any exercise regimen. While moderate physical activity, such as brisk walking, is safe for most people, health experts suggest that you talk with your doctor before you start an exercise program, particularly if you have any of the following conditions:

- Heart disease; Asthma or lung disease; Diabetes, or liver or kidney disease; and Arthritis.

Before beginning your exercise regimen check with your doctor if you have symptoms suggestive of heart, lung, or other serious disease, such as:

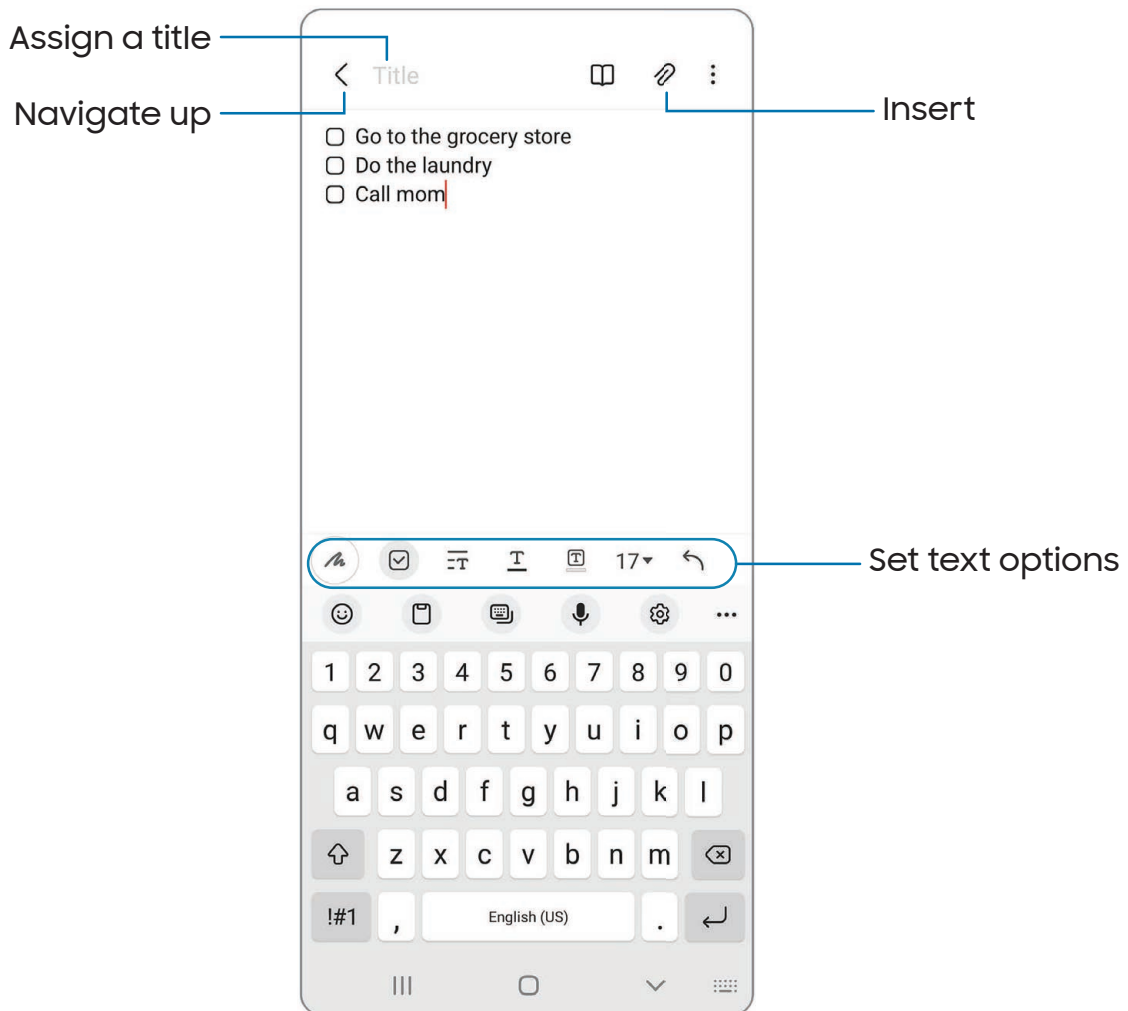
- Pain or discomfort in your chest, neck, jaw, or arms during physical activity;
- Dizziness or loss of consciousness;
- Shortness of breath with mild exertion or at rest, or when lying down or going to bed;
- Ankle swelling, especially at night;
- A heart murmur or a rapid or pronounced heartbeat;
- Muscle pain when walking upstairs or up a hill that goes away when you rest.

It is recommended that before engaging in an exercise routine, you consult with your doctor or medical practitioner. If you are unsure of your health status, have several health problems, or are pregnant, you should speak with your doctor before starting a new exercise program.

Samsung Notes



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

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






Create notes

Add text, images, voice recordings and more.

1. From  **Samsung Notes**, tap  **Add**.
2. Use the text options to create content.




Voice recordings

Create annotated voice recordings perfect for lectures or meetings. Take notes while recording audio. Playback is synced to scroll to the corresponding text.

1. From  **Samsung Notes**, tap  **Add**.
2. Tap  **Insert** > **Voice recording**.
3. Use the text options to create content while audio is being recorded.





Edit notes

Make edits to notes you create.

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




Notes options

You can edit, sort, or manage notes.

- From  **Samsung Notes**, the following options are available:
 -  **Import PDFs**: Open a PDF in Samsung Notes.
 -  **Search**: Search for a keyword.
 -  **More options**:
 - **Edit**: Select notes to share, delete, save as file, lock, or move.
 - **View**: Switch between Grid, List, or Simple list.
 - **Pin favorites to top**: Keep notes marked as your favorites at the top of the main page.

Notes menu

You can view your notes by category.


- From  **Samsung Notes**, tap  **Show navigation menu** for the following options:
 -  **Settings**: View settings for the Samsung Notes app.
 - **All notes**: View all notes.
 - **Shared notebooks**: View notebooks shared with your contacts through your Samsung account.
 - **Trash**: View deleted notes for up to 15 days.
 - **Folders**: View notes by groups.
 - **Manage folders**: Add, remove, and organize folders.

Samsung Pay

Samsung Pay™ lets you make payments with your device. It is accepted almost anywhere you can swipe or tap your credit card. A Samsung account is required.


For support, visit samsung.com/us/support/owners/app/samsung-pay.

- From  **Samsung Pay**, tap **Get started** and follow the prompts.

 **NOTE** For added security, your credit and debit card information is not stored on a cloud service. If you are using the Samsung Pay app on multiple devices, you must sign in to the app and confirm all payment cards on each device. Some card issuers may limit the number of devices.

Use Samsung Pay

Use Samsung Pay by opening the app and holding your device over the store's card reader.

1. From  **Samsung Pay**, select a card to pay with and authorize payments by scanning your finger or by entering your Samsung Pay PIN.
2. Hold your phone over the store's card reader.
 - When your payment is complete, a receipt is sent to your registered email.



NOTE Make sure the NFC feature is enabled on your device. For more information, see [NFC and payment](#).

Quick access

Use Quick access to open Samsung Pay from the Lock Screen, Home screen, or Screen off.

1. From  Samsung Pay, tap  Navigation drawer > Settings > Quick access.
2. Tap  to enable each screen option.

To use Quick access:

1. From any screen, swipe up from the bottom of the screen.
 - Your payment card and Quick access are displayed.
2. Drag the card down to close Quick access.

Use gift cards with Samsung Pay

Purchase, send, and redeem gift cards from an expanding selection of your favorite retailers.

To view the list of supported banks and gift card merchants, visit samsung.com/us/samsung-pay/compatible-cards/#bank.

Secure your information

Samsung Pay is designed with the latest security technology and works on most recent Samsung Galaxy devices. Payments are authorized with your fingerprint or PIN, and each transaction uses a unique token each time, so your device only allows payments with your consent.

If your device is ever lost, you can use the Find My Mobile function to remotely wipe your data for even more protection. For more information, see [Find My Mobile](#).

Google apps

The following Google apps may be preloaded on your device. Apps can be downloaded from the Google Play™ store.

[Chrome](#) | [Drive](#) | [Duo](#) | [Gmail](#) | [Google](#) | [GPay](#) | [Google TV](#) | [Maps](#) | [Messages](#) | [Photos](#) | [Play Store](#) | [YouTube](#) | [YT Music](#)



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

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



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

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



Make cross-platform video calls on phones and tablets, smart devices, and on the web.

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



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

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



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

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



Pay with your Android phone at participating stores and within mobile apps with Google Pay™.

Visit support.google.com/pay to learn more.



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

Visit support.google.com/googletv to learn more.



Get directions and other location-based information. You must enable location services to use Google Maps. For more information, see [Location](#).

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



Send and receive messages over Wi-Fi or data with Google's official app for texting and chat.

Visit support.google.com/messages to learn more.

Photos

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

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

Play Store

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

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

YouTube

Watch and upload YouTube™ videos right from your device.

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

YT Music

Stream and browse playlists, albums, and artists from YouTube Music.

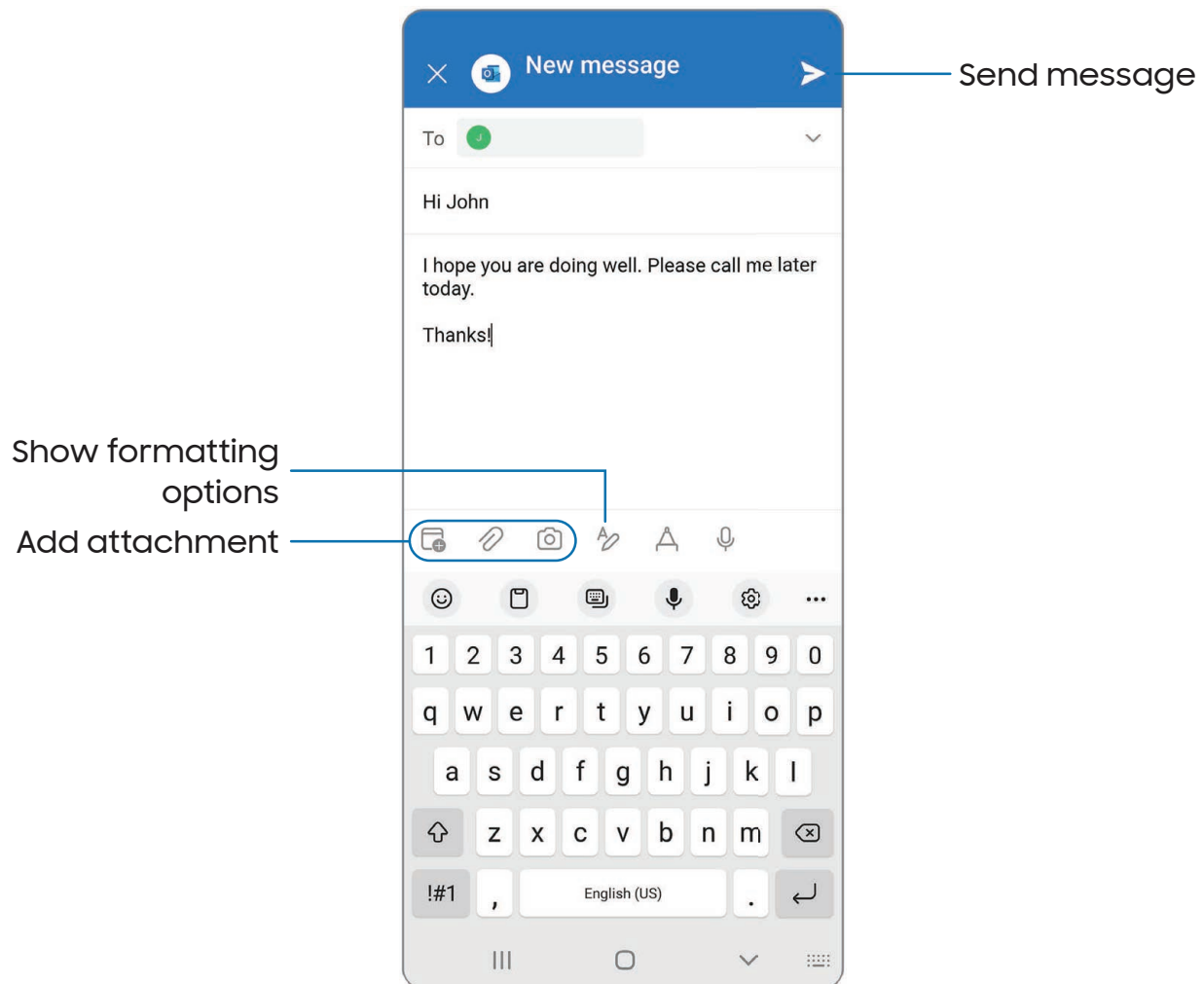
Microsoft apps

The following Microsoft apps may be preloaded on your device. Apps can be downloaded from Galaxy Store and the Google Play store.

[Outlook](#) | [Office](#) | [OneDrive](#)

Outlook

Access email, calendar, contacts, tasks, and more in Outlook. See [Add an Outlook account](#). Visit support.office.com/en-us/article/outlook-for-ios-and-android-help-cd84214e-a5ac-4e95-9ea3-e07f78d0cde6 to learn more.



Office

Enjoy the Word, Excel, and PowerPoint apps on your mobile device with the Microsoft Office mobile app.

OneDrive

Store and share photos, videos, documents, and more in your free online OneDrive® account—accessible from your personal computer, tablet, or phone.

Settings

Access Settings

Connections

Sounds and vibration

Notifications

Display

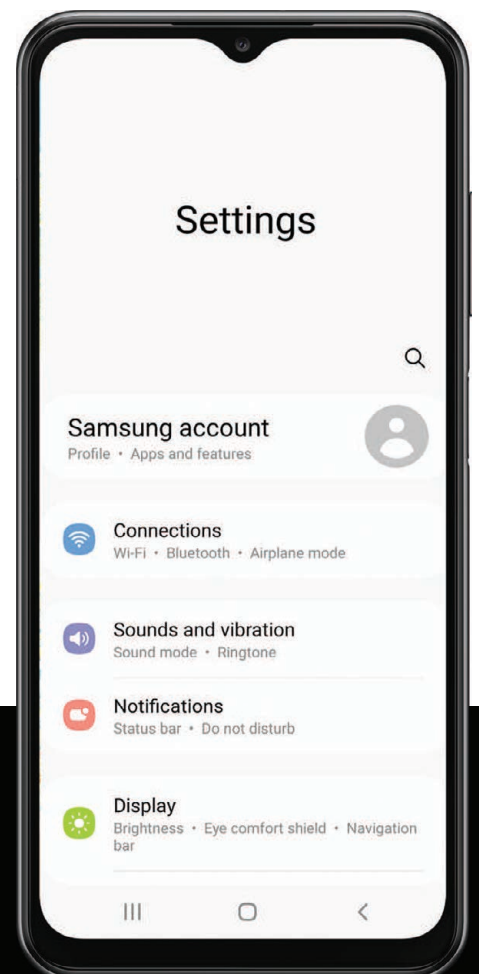
Lock screen and security

Accounts

Device maintenance



Accessibility

Other settings




Access Settings

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

- From a Home screen, swipe down and tap  **Settings**.
- From Apps, tap  **Settings**.

Search for Settings

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

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



Connections

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

[Wi-Fi](#) | [Bluetooth](#) | [NFC and payment](#) | [Airplane mode](#) | [Mobile networks](#) | [Data usage](#) | [Mobile hotspot](#) | [Tethering](#) | [Nearby device scanning](#) | [Connect to a printer](#) | [Virtual Private Networks](#) | [Private DNS](#) | [Ethernet](#)




Wi-Fi

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


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

Connect to a hidden Wi-Fi network

If the Wi-Fi network you want is not listed after a scan, you can still connect to it by entering the information manually. Ask the Wi-Fi network administrator for the name and password before you begin.




1. From Settings, tap  **Connections** > **Wi-Fi**, and then tap  to turn on Wi-Fi.
2. Tap  **Add network** at the bottom of the list.
3. Enter information about the Wi-Fi network:
 - **Network name:** Type the exact name of the network.
 - **Security:** Select a security option from the list, and enter the password if required.
 - **Password:** Enter the network password.
 - **View more:** Define other advanced options, such as IP and Proxy settings.
4. Tap **Save**.



TIP Tap  **QR scanner** to connect to a Wi-Fi network by using your device's camera to scan a QR code.

Advanced Wi-Fi settings




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

1. From Settings, tap  **Connections** > **Wi-Fi**, and then tap  to turn on Wi-Fi.
2. Tap  **More options** > **Advanced**.
 - **Sync with Samsung Cloud/account:** Sync Wi-Fi profiles with your Samsung account.
 - **Switch to mobile data:** When enabled, your device will switch to mobile data whenever the Wi-Fi connection is unstable. When the Wi-Fi signal is strong, it switches back to Wi-Fi.
 - **Turn on Wi-Fi automatically:** Turn on Wi-Fi in frequently-used locations.
 - **Show network quality info:** Display network information (such as speed and stability) in the list of available Wi-Fi networks.

- **Network notification /Wi-Fi notifications:** Receive notifications when open networks in range are detected.
- **Manage networks:** View saved Wi-Fi networks and configure whether to auto reconnect to or forget individual networks.
- **Wi-Fi control history:** View apps that have recently turned your Wi-Fi on or off.
- **Hotspot 2.0:** Connect automatically to Wi-Fi networks that support Hotspot 2.0.
- **Install network certificates:** Install authentication certificates.



Wi-Fi Direct

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

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



Disconnect from Wi-Fi Direct

Disconnect your device from a Wi-Fi Direct device.

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

Bluetooth




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

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

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




Rename a paired device

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

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



Unpair from a Bluetooth device

When you unpair from a Bluetooth device, the two devices no longer recognize each other and you will need to pair with the device again in order to connect to it.

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


Advanced options

Additional Bluetooth features are available in the Advanced menu. Options may vary by carrier.

1. From Settings, tap  **Connections** > **Bluetooth**.
2. Tap **Advanced** or  **More options** > **Advanced** for the following options:
 - **Sync with Samsung Cloud/account:** Sync files transferred through Bluetooth with your Samsung account.
 - **Music Share:** Let friends play music on your Bluetooth speaker or headphones.
 - **Ringtone sync:** Use the ringtone set on your device when you receive calls through a connected Bluetooth device.
 - **Bluetooth control history:** View apps that have used Bluetooth recently.
 - **Block pairing requests:** Add devices to block pairing requests.
 - **Bluetooth scan history:** View which apps have recently scanned for nearby Bluetooth devices and manage Bluetooth features for apps.



NFC and payment

Near Field Communication (NFC) allows you to communicate with another device without connecting to a network. This technology is used by Android Beam and certain payment apps. The device that you are transferring to needs to support NFC, and it needs to be within four centimeters of your device.

- From Settings, tap  **Connections** > **NFC and contactless payments**, and then tap  to turn on this feature.

Tap and pay

Use an NFC payment app to make payments by touching your device to a compatible credit card reader.

1. From Settings, tap  **Connections** > **NFC and contactless payments**, and then tap  to turn on NFC.
2. Tap **Contactless payments** to see the default payment app.
 - To use another payment app, tap an available app to choose it.
 - To use a payment app that is open, tap **Pay with currently open app**.
 - To set another payment service as the default, tap **Others**, and then tap the service you prefer.

 **TIP** NFC technology is used with  **Samsung Pay**. Turn on this feature to see how easy and secure it is to use your device to make payments.

Airplane mode

Airplane mode turns off all network connections including calling, texting, mobile data, Wi-Fi, and Bluetooth. While Airplane mode is enabled, you can turn on Wi-Fi and Bluetooth in Settings or from the Quick settings panel.


- From Settings, tap  **Connections** > **Airplane mode**, and then tap  to enable this feature.



NOTE The use of mobile devices on an aircraft or a ship may be subject to federal and local guidelines and restrictions. Airplane mode will disable all network connectivity. Ultra-wideband (UWB) is not permitted aboard aircraft or ships and can be turned off by use of Airplane mode. Check with appropriate authorities and always follow crew instructions regarding when and how you may use your device.

Mobile networks

Use Mobile networks to configure your device's ability to connect to mobile networks and use mobile data. Options may vary by carrier.

- From Settings, tap  **Connections** > **Mobile networks**.
 - **Mobile data:** Enable mobile data usage.
 - **International data roaming:** Change voice, text and data roaming settings for international roaming.
 - **Allow 2G service:** Permit the use of 2G service in areas with limited cellular coverage.
 - **Network mode:** You can select which network modes your mobile device can use.
 - **Access Point Names:** Choose or add APNs, which have the network settings your device needs to connect to your provider.
 - **Network operators:** Choose available and preferred networks.



TIP Use these features to help manage connection settings that may affect your monthly bill.




Data usage

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

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


Turn on Data saver

Use Data saver to reduce your data consumption by preventing selected apps from sending or receiving data in the background.

1. From Settings, tap  **Connections > Data usage > Data saver**.
2. Tap  to turn on Data saver.
 - To allow some apps to have unrestricted data usage, tap **Allowed to use data while Data saver is on**, and tap  next to each app to specify restrictions.

Monitor mobile data

You can customize your mobile data access by setting limits and restrictions. Options may vary by carrier.


- From Settings, tap  **Connections > Data usage**. The following options are available:
 - **Mobile data:** Use mobile data from your plan.
 - **International data roaming:** Enable mobile data services while roaming internationally.
 - **Mobile data only apps:** Set apps to always use mobile data, even when your device is connected to Wi-Fi.
 - **Mobile data usage:** View data usage over mobile connections over a period of time. You can view total usage as well as usage by app.
 - **Billing cycle and data warning:** Change the monthly date to align with your carrier's billing date.



TIP Use these features to keep an eye on your estimated data usage.



Monitor Wi-Fi data

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

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


Mobile hotspot

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

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



Configure mobile hotspot settings

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

1. From Settings, tap  **Connections > Mobile hotspot and tethering > Mobile hotspot**.
2. Tap **Configure** for the following settings:
 - **Network name:** View and change the name of your Mobile hotspot.
 - **Security:** Choose the security level for your Mobile hotspot.
 - **Password:** If you choose a security level that uses a password, you can view or change it.
 - **Band:** Select one of the available bandwidth options.
 - **Advanced:** Configure additional Mobile hotspot settings.


Auto hotspot

Share your hotspot connection automatically with other devices signed in to your Samsung account.

1. From Settings, tap  **Connections** > **Mobile hotspot and tethering** > **Mobile hotspot**.
2. Tap **Auto hotspot**, and tap  to enable the feature.

Tethering

You can use tethering to share your device's Internet connection with another device. Options may vary by carrier.

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




Nearby device scanning

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

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

Connect to a printer

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



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



NOTE Not all apps support printing.


Virtual Private Networks

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

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


Manage a VPN

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

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


Connect to a VPN

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

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


Private DNS

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

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

Ethernet

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

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



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


Sounds and vibration

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

[Sound mode](#) | [Vibrations](#) | [Volume](#) | [Ringtone](#) | [Notification sound](#) | [System sound themes](#) | [System sounds and vibration](#) | [Dolby Atmos](#) | [Equalizer](#) | [UHQ upscaler](#) | [Adapt sound](#) | [Separate app sound](#)

Sound mode

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


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



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

Vibrations

You can control how and when your device vibrates.

1. From Settings, tap  **Sounds and vibration**.
2. Tap options to customize:
 - **Call vibration pattern:** Choose from preset vibration patterns for calls.
 - **Notification vibration pattern:** Choose from preset vibration patterns for notifications.
 - **Vibration intensity:** Set vibration intensity levels for calls, notifications, and touch interactions by dragging the sliders.

Volume

Set the volume level for call ringtones, notifications, media, and system sounds.

- From Settings, tap  **Sounds and vibration** > **Volume**, and drag the sliders for each sound type.



TIP You can also use the Volume keys to adjust the volume. When pressed, a pop-up menu shows the volume level and current sound type. You can tap the menu to expand it, and then adjust the volume of the other sound types by dragging their sliders.




Use Volume keys for media

Set the default action of the Volume keys to control the media sound volume rather than whichever sound type is in use.

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



Media volume limit

Limit the maximum output of the device's volume while using Bluetooth speakers or headphones (not included).

1. From Settings, tap  **Sounds and vibration** > **Volume**.
2. Tap  **More options** > **Media volume limit**.
3. Tap  to enable this feature.
 - To set the maximum output volume, drag the **Custom volume limit** slider.
 - To require a PIN to make changes to the volume setting, tap **Set volume limit PIN**.


Ringtone

Customize your call ringtone by choosing from preset sounds or adding your own. Options may vary by carrier.

1. From Settings, tap  **Sounds and vibration** > **Ringtone**.
2. Tap a ringtone to hear a preview and select it, or tap  **Add** to use an audio file as a ringtone.

Notification sound

Choose a preset sound for all notification alerts.

1. From Settings, tap  **Sounds and vibration** > **Notification sound**.
2. Tap a sound to hear a preview and select it.



TIP You can also customize notifications sounds to be unique for each app using the App settings menu.

System sound themes

Choose a sound theme to use for touch interactions, charging, changing the sound mode, and Samsung Keyboard, and more.

- From Settings, tap  **Sounds and vibration** > **System sound** and choose an available option.

System sounds and vibration

Customize your device's sounds and vibrations for actions like tapping the screen and charging the device. Options may vary by carrier.

- From Settings, tap  **Sounds and vibration** > **System sound/vibration control** for the following options:

Sound

- **Touch interactions:** Play tones when you touch or tap the screen to make selections.
- **Screen lock/unlock:** Play a sound when you lock or unlock the screen.
- **Charging:** Play a sound when a charger is connected.


- **Dialing keypad:** Play a tone when dialing numbers on the Phone keypad.
- **Samsung keyboard:** Play a sound when typing with the Samsung keyboard.

Vibration

- **Touch interactions:** Vibrate when you tap navigation buttons or touch and hold items on the screen.
- **Dialing keypad:** Vibrate when dialing numbers on the Phone keypad.
- **Navigation gestures:** Vibrate when using gestures.
- **Charging:** Vibrate when a charger is connected.
- **Samsung keyboard:** Vibrate when typing with the Samsung keyboard.


Dolby Atmos

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

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


Equalizer

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

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



UHQ upscaler

Enhance the sound resolution of music and videos for a clearer listening experience. This feature is only available with a headset connected.

1. From Settings, tap  **Sounds and vibration** > **Sound quality and effects**.
2. Tap **UHQ upscaler** and choose an upscaling option.

Adapt sound

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


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



TIP Tap **Test my hearing** to let your device identify the best sound for you.

Separate app sound

You can choose to have an app play only media sound on a Bluetooth speaker or headset separate from the other sounds (like notifications). Connect to a Bluetooth device to make this option available in the Audio device menu.

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


Notifications

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

[Notification pop-up style](#) | [Recently sent notifications](#) | [Do not disturb](#) | [Advanced settings](#) | [Alert when phone picked up](#) | [Turn over to mute](#)


Notification pop-up style

You can change the style and additional settings for your notifications.

- From Settings, tap  **Notifications**, and then choose a pop-up style:
 - **Brief:** Enable customization of your notification colors, lighting style, and included apps.
 - **Included apps:** View brief notifications for your apps.
 - **Brief pop-up settings:** Customize the Edge lighting style, colors, and enable notifications to show even while the screen is off.
 - **Detailed:** Enable the default Samsung Notification settings.


Recently sent notifications

You can view a list of apps that have sent notifications under Recently sent notifications.

1. From Settings, tap  **Notifications**.
2. Tap an entry under **Recently sent** to customize the notification settings.
3. Tap **More** to see the expanded list.

Do not disturb

Do not disturb allows you to block sounds and notifications while this mode is turned on. You can also specify exceptions for people, apps, and alarms. You can also set a schedule for recurring events like sleep or meetings.

- From Settings, tap  **Notifications** > **Do not disturb** and configure the following:
 - **Do not disturb:** Enable Do not disturb to block sounds and notifications.
 - **For how long?:** Choose a default duration for Do not disturb mode when you enable it manually.

Schedule


- **Sleeping:** Customize a schedule for Do not disturb mode while you are sleeping.
- **Add schedule:** Create a new schedule to configure the days and times to regularly put your device in Do not disturb mode.

Exceptions

- **Calls, messages, and conversations:** Tap to allow Do not disturb exceptions.
- **Alarms and sounds:** Enable sounds and vibrations for alarms, events, and reminders while Do not disturb mode is active.
- **Apps:** Add apps that you would like to receive notifications from in Do not disturb mode. Call, message, and conversation notifications will still reach you even if you don't allow the associated apps.
- **Hide notifications:** View customization options to hide notifications.

Advanced settings

You can configure notifications from apps and services.

- From Settings, tap  **Notifications** > **Advanced settings**.
 - **Show notification icons:** Modify how many notifications appear on the Status bar.
 - **Show battery percentage:** Display the current battery life of your device on the Status bar.
 - **Notification history:** Display recent and snoozed notifications.

- **Conversations:** View conversation notifications. Touch and hold a conversation notification to mark it as priority, set it as alerting, or silent.
- **Floating notifications:** Enable floating notifications in either Bubbles or Smart pop-up view.
- **Suggest actions and replies for notifications:** Get applicable suggestions for actions to notifications and replies to messages.
- **Show snooze button:** Enable to display a button to quickly snooze your notifications.
- **Notification reminders:** Enable and customize periodic reminders about notifications from selected apps and services. Clear notifications to stop the reminders.
- **App icon badges:** Identify which apps have active notifications with badges that appear on their icons. Tap to choose whether or not badges indicate the number of unread notifications.
- **Wireless Emergency Alerts:** Customize notifications for emergency alerts.

Alert when phone picked up

You can set the device to notify you about missed calls and messages by vibrating when you pick it up.

- From Settings, tap  **Advanced features** > **Motions and gestures** > **Alert when phone picked up** to enable.

Turn over to mute

Mute incoming calls and alarms by turning your phone face down.

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


Display

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

[Dark mode](#) | [Screen brightness](#) | [Motion smoothness](#) | [Eye comfort shield](#) | [Font size and style](#) | [Screen zoom](#) | [Full screen apps](#) | [Screen timeout](#) | [Touch sensitivity](#) | [Screen saver](#) | [Lift to wake](#) | [Double tap to turn on screen](#) | [Double tap to turn off screen](#) | [Keep screen on while viewing](#) | [One-handed mode](#)


Dark mode

Dark mode allows you to switch to a darker theme to keep your eyes more comfortable at night, darkening white or bright screens and notifications.

- From Settings, tap  **Display** for the following options:
 - **Light:** Apply a light color theme to your device (default).
 - **Dark:** Apply a dark color theme to your device.
 - **Dark mode settings:** Customize when and where Dark mode is applied.
 - **Turn on as scheduled:** Configure Dark mode for either **Sunset to sunrise** or **Custom schedule**.

Screen brightness

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

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



TIP You can also adjust screen brightness from the Quick settings panel.



Motion smoothness

Get smoother scrolling and more realistic animations by increasing the screen's refresh rate.

1. From Settings, tap  **Display > Motion smoothness**.
2. Tap an option, and then tap **Apply**.



Eye comfort shield

This feature may help you sleep better and reduce eye strain. You can set a schedule to automatically turn this feature on and off.

- From Settings, tap  **Display > Eye comfort shield**, and then choose one of the following options:
 - Tap  to enable this feature.
 - Tap **Set schedule** and choose **Always on**, **Sunset to sunrise**, or **Custom**.
 - Drag the **Color temperature** slider to set the opacity of the filter.

Font size and style

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

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

Screen zoom

Adjust the zoom level to make content easier to see.

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

Full screen apps


You can choose which apps you want to use in the full screen aspect ratio. You can also hide the camera cutout area with a black bar.

- From Settings, tap  **Display** > **Full screen apps** and tap apps to enable this feature and customize options.

Screen timeout

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

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

 **NOTE** Prolonged display of non-moving images, excluding Always On Display, may result in permanent ghost-like afterimages or degraded image quality. Turn off the display screen when not in use.


Touch sensitivity

Increase the touch sensitivity of the screen for use with screen protectors.

- From Settings, tap  **Display** > **Touch sensitivity** to enable.

Screen saver

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

1. From Settings, tap  **Display** > **Screen saver**.
2. Choose one of the following options:
 - **None:** Do not display a screen saver.
 - **Colors:** Tap the selector to display a changing screen of colors.
 - **Photo table:** Display pictures in a photo table.
 - **Photo frame:** Display pictures in a photo frame.
 - **Photos:** Display pictures from your Google Photos account.
3. Tap **Preview** for a demonstration of the selected Screen saver.

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

Lift to wake

Turn on the screen by lifting the device.

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

Double tap to turn on screen

Turn on the screen by double-tapping instead of using the Side key.

- From Settings, tap  **Advanced features** > **Motions and gestures** > **Double tap to turn on screen** to enable this feature.


Double tap to turn off screen

Turn off the screen by double-tapping instead of using the Side key.

- From Settings, tap  **Advanced features** > **Motions and gestures** > **Double tap to turn off screen** to enable this feature.


Keep screen on while viewing

Use the front camera to detect when you're looking at the screen to keep it turned on.

- From Settings, tap  **Advanced features** > **Motions and gestures** > **Keep screen on while viewing**, and tap to enable the feature.

One-handed mode

You can change the screen layout to accommodate operating your device with one hand.

1. From Settings, tap  **Advanced features** > **One-handed mode**.
2. Tap to enable the feature and select one of the following options:
 - **Gesture:** Swipe down in the center of the bottom edge of the screen.
 - **Button:** Tap **Home** two times in quick succession to reduce the display size.

Lock screen and security

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

[Screen lock types](#) | [Google Play Protect](#) | [Security update](#) | [Find My Mobile](#) | [Find My Device](#) | [Samsung Pass](#) | [Secure Folder](#) | [Private Share](#) | [Install unknown apps](#) | [Encrypt SD card](#) | [Password for factory data reset](#) | [Set up SIM card lock](#) | [View passwords](#) | [Device administration](#) | [Credential storage](#) | [Advanced security settings](#) | [Permission manager](#) | [Controls and alerts](#) | [Samsung Privacy](#) | [Google Privacy](#) | [Location](#)

Screen lock types


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



NOTE Biometric locks are also available to protect access to your device and sensitive data on your device. For more information, see [Biometric security](#).

Set a secure screen lock


It is recommended that you secure your device using a secure screen lock (Pattern, PIN, or Password). This is necessary to set up and enable biometric locks.

1. From Settings, tap  **Lock screen** > **Screen lock type** and tap a secure screen lock (**Pattern**, **PIN**, or **Password**).
2. Tap to enable showing notifications on the lock screen. The following options are available:
 - **Icon only:** Show only notification icons with no details on the lock screen.
 - **Details:** Display notification details on the lock screen.
 - **Transparency:** Set the transparency value of notification cards.
 - **Auto-reverse text color:** Reverse the color of notification text based on the background color.
 - **Hide content:** Do not show notifications in the Notification panel.
 - **Notifications to show:** Choose which notifications to show on the Lock screen.

3. Tap **Done** to exit the menu.
4. Configure the following screen lock options:
 - **Smart Lock:** Unlock your device automatically when trusted locations or other devices have been detected. A secure screen lock is required for this feature.
 - **Secure lock settings:** Customize your secure lock settings. A secure screen lock is required for this feature.


Clock and information

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

- From Settings, tap  **Lock screen** for the following options:
 - **Wallpaper services:** Enable additional features such as guide page and Dynamic Lock Screen.
 - **Clock style:** Set the type and color of the clock on the Lock screen.
 - **Roaming clock:** Show the time both where you are and at home while you are roaming.
 - **Widgets:** Enable widgets on the Lock screen to get quick access to useful information.
 - **Contact information:** Show your contact information, such as your phone number or email address.
 - **Notifications:** Select which notifications to display on the Lock screen.
 - **Shortcuts:** Select which app shortcuts to add to the Lock screen.
 - **About Lock screen:** Update the Lock screen's software.

Google Play Protect

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

- From Settings, tap  **Biometrics and security** > **Google Play Protect**.
 - Updates are checked for automatically.

Security update

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



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

Find My Mobile

You can protect your device from loss or theft by allowing your device to be locked, tracked online, and for your data to be deleted remotely. A Samsung account is required, and Google location service must be turned on in order to use Find My Mobile. For more information, visit samsung.com/us/support/owners/app/find-my-mobile.


Turn on Find My Mobile

Before you can use the Find My Mobile feature, you must turn it on and customize the options. To access your device remotely, visit findmymobile.samsung.com.

1. From Settings, tap  **Biometrics and security** > **Find My Mobile**.
2. Tap  to enable Find My Mobile and log in to your Samsung account. The following options are available:
 - **Remote unlock:** Allow Samsung to store your PIN, pattern, or password, allowing you to unlock and control your device remotely.
 - **Send last location:** Allow your device to send its last location to the Find My Mobile server when the remaining battery charge falls below a certain level.


Find My Device

You can protect your device from loss or theft by allowing your device to be locked, tracked online, and for your data to be deleted remotely. A Google Account is required, and Google location service must be turned on.

1. From Settings, tap  **Biometrics and security** > **Find My Device**.
 - If you are not logged in to a Google Account, tap **Find My Device won't work** and follow the prompts to sign in.
2. The following options are available:
 - **Find My Device:** Download the app from Google Play.
 - **Web:** Access Find My Device on the Internet.
 - **Google:** Search for "find my device" topics online.


Samsung Pass

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

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

Secure Folder

You can create a secure folder on your device to protect private content and apps from anyone who may be using your device. You must sign in to your Samsung account to set up and use Secure folder.

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

Private Share

Share files privately, prevent recipients from resharing, and set expiration dates. Keep your data safe with blockchain technology.

- From Settings, tap  **Biometrics and security** > **Private share**, and follow the prompts to add files.

Install unknown apps

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


1. From Settings, tap  **Biometrics and security** > **Install unknown apps**.
2. Tap  to allow installation from an app or source.



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

Encrypt SD card

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


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



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


Password for factory data reset

You can require a password to reset your device to factory default settings. Options may vary by carrier.

- From Settings, tap  **Biometrics and security** > **Other security settings** > **Set up/change password** and enter a password.

Set up SIM card lock

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

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


View passwords

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

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


Device administration

You can authorize security features and apps to have administrative access to your device.

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

Credential storage


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

- From Settings, tap  **Biometrics and security** > **Other security settings** for the following options:
 - **View security certificates:** Display certificates in your device's ROM and other certificates you have installed.
 - **User certificates:** View user certificates that identify your device.
 - **Install from device/phone storage:** Install a new certificate from storage.

- **Clear credentials:** Erase credential contents from the device and reset the password.
- **Certificate management app:** Select a certification management app for credential contents.


Advanced security settings


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

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

Permission manager


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

1. From Settings, tap  **Privacy** > **Permission manager**.
2. Tap a category, then tap an app to select which permissions you want to be notified about.

 **NOTE** When using an app or service for the first time that wants to access certain features of your device, a dialog box asks if you want to permit such access.


Controls and alerts

Control app access to the camera, microphone, and clipboard..

1. From Settings, tap  **Privacy**.
2. Under **Controls and alerts** tap the following options to enable or disable:
 - **Microphone access:** Allow apps to use the microphone if they have the appropriate permissions.
 - **Alert when clipboard accessed:** Get an alert when an app accesses content copied to the clipboard.


Samsung Privacy

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

1. From Settings, tap  **Privacy**.
2. Under **Samsung** tap the following options to customize:
 - **Samsung Privacy:** View Samsung's privacy information.
 - **Customization Service:** Allow Samsung to provide customized content and recommendations.
 - **Send diagnostic data:** Send diagnostic information about your device to Samsung when you are having technical problems.



Google Privacy

Customize Android and Google privacy features.

1. From Settings, tap  **Privacy**.
2. Under **Google** tap privacy services to customize them.

Location

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


1. From Settings, tap  **Location**.
2. Tap  to turn on Location services.



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

App permissions

Configure permissions for apps that want to access your location information.

1. From Settings, tap  **Location** > **App permissions**.
2. Tap an app and chose which location permissions to grant it. Options vary by app.



Location services

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

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


Recent access

View a list of apps that have requested your location.

1. From Settings, tap  **Location**.
2. Tap  to turn on Location services.
3. Tap an entry under **Recent access** to view the app's settings.

Emergency Location Service

If Emergency Location Service (ELS) is supported in your region, when you call or text an emergency number, your device can automatically send its location to emergency response partners.

1. From Settings, tap  **Safety and emergency** > **Emergency Location Service**.
2. Tap  to turn on Emergency Location Service.



Accounts

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

[Add an account](#) | [Account settings](#) | [Remove an account](#) | [Backup and restore](#) | [Google settings](#)


Add an account

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

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


Account settings

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

1. From Settings, tap  **Accounts and backup** > **Manage accounts**.
2. Tap an account to customize its settings.

Remove an account

You can remove accounts from your device.


1. From Settings, tap  **Accounts and backup** > **Manage accounts**.
2. Tap the account and then tap **Remove account**.

Backup and restore

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

Samsung account

You can enable backup of your information to your Samsung account. Options may vary by carrier.

- From Settings, tap  **Accounts and backup** and tap an option under **Samsung Cloud**:
 - **Back up data**: Configure your Samsung account to back up your data.
 - **Restore data**: Use your Samsung account to restore your backup data.

Google Account

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

1. From Settings, tap  **Accounts and backup**.
2. Under **Google Drive**, tap **Back up data**.


External storage transfer

You can back up your data to an SD card or a USB storage device, or restore backup data using Smart Switch. For more information, see [Bring data from an old device](#).

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

Google settings

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

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

Device maintenance

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

[Quick optimization](#) | [Battery](#) | [Storage](#) | [Memory](#) | [Advanced device care options](#) | [Language and input](#) | [Date and time](#) | [Troubleshooting](#)

Quick optimization

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


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

To use the quick optimization feature:

- From Settings, tap  **Battery and device care** > **Optimize now**.


Battery

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

- From Settings, tap  **Battery and device care** > **Battery** for the following options:
 - **Usage since last full charge:** View your recent battery usage by time, app, and service.
 - **Power saving:** Save battery life by limiting background network usage, syncing, and location checking. Choose from additional power saving options to save more power when this mode is enabled.
 - **Background usage limits:** View apps that you don't use often and limit their battery usage. To disable this feature, tap **Put unused apps to sleep**.
 - **More battery settings:** Configure additional battery settings and notifications.

Storage

View your storage capacity and detailed usage by category and file type. You can also mount, unmount, or format an optional memory card (not included).

- From Settings, tap  **Battery and device care** > **Storage**.
 - Tap a category to view and manage files.


Memory card

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

For more information, see [Set up your device](#).



Mount a memory card

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

1. From Settings, tap  **Battery and device care** > **Storage**.
2. Swipe the screen to **SD card**, and then tap **Mount**.



Remove a memory card

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

1. From Settings, tap  **Battery and device care** > **Storage**.
2. Swipe the screen to **SD card**, and then tap  **More options** > **Unmount**.
3. Remove your memory card from the device.





Format a memory card

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

1. From Settings, tap  **Battery and device care** > **Storage**.
2. Swipe the screen to **SD card**, and then tap  **More options** > **Format**.
3. Tap **Format** to confirm.




Memory


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

- From Settings, tap  **Battery and device care** > **Memory**. The used and available memory are shown.
 - Tap **Clean now** to free up as much memory as possible.
 - Tap **View more** to view the full list of apps and services using memory. Tap  to include or exclude these apps and services.
 - Tap **Apps not used recently** to view apps and services that are included in this group. Tap  to include or exclude these apps and services.
 - Tap **Excluded apps** to view a list of apps that have been excluded. Tap  **Add apps** to choose apps to exclude from memory usage checks.
 - Tap **RAM Plus** to select how much internal storage to use as virtual memory to improve app performance.

Advanced device care options

Other Device care features are available in the Advanced menu.

- From Settings, tap  **Battery and device care**. The following options are available:
 -  **Search**: Find panels that are either installed or available to install.
 -  **Care report**: View information about the restart history and charging and temperature tips.



-  **More options:**
 - **Add to Apps screen:** Display the icon for Device care on the Apps screen.
 - **Automation:** Optimize your device automatically at set times based on your usage patterns.
 - **Contact us:** Contact Samsung support through Samsung members.
 - **About Device care:** View version and license information about the Device care feature.

Language and input

Configure your device's language and input settings.



Change the device language

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

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

Text-to-speech


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

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

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


Keyboard list and default

Change your default keyboard, modify built-in keyboards, and change keyboard settings.

- From Settings, tap  **General management** > **Keyboard list and default** for the following options:
 - **Default keyboard:** Choose a default keyboard for your device's menus and keyboards.
 - **Samsung keyboard:** Modify settings for the Samsung keyboard.
 - **Google voice typing:** Modify settings for Google Voice input.
 - **Google voice typing [Legacy]:** Modify settings for Google Voice input.
 - **Keyboard button on navigation bar:** Enable a button on the Navigation bar to quickly switch between keyboards.


Physical keyboards

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

1. From Settings, tap  **General management**.
2. Tap **Physical keyboard**, and then choose an option:
 - **Show on-screen keyboard:** Show the on-screen keyboard while a physical keyboard is also being used.
 - **Keyboard shortcuts:** Show explanations of the keyboard shortcuts on the screen.
 - **Change language shortcut:** Enable or disable language key shortcuts for your physical keyboard.


Mouse and trackpad

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

- From Settings, tap  **General management** > **Mouse and trackpad**.
 - **Pointer speed:** Drag the slider to the right to go faster or to the left to go slower.
 - **Wheel scrolling speed:** Drag the slider to the right to scroll faster or to the left to scroll slower.
 - **Enhance pointer precision:** Enable to make the mouse cursor move faster or slower depending on how fast you move your mouse.
 - **Pointer size and color:** Change the size and color of the mouse pointer.
 - **Primary mouse button:** Choose either the **Left** or **Right** mouse button to be your primary button.
 - **Secondary button:** Choose the action of your secondary mouse button.
 - **Middle button:** Choose the action of your middle mouse button.
 - **Additional button 1:** Choose an action for another available mouse button.
 - **Additional button 2:** Choose an action for another available mouse button.


Passwords and autofill

Save time entering information using autofill services.

1. From Settings, tap  **General Management**.
2. Tap **Passwords and autofill** to view your selected services.

Date and time

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

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

Troubleshooting

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

Software update/System updates

Check for and install available software updates for your device. Options may vary by carrier.


- From Settings, tap **Software update/System updates** for the following options:
 - **Check for updates:** Manually check for software updates.
 - **Continue update:** Resume an update that was interrupted.

Reset

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

Reset all settings

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

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

Reset network settings

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

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


Reset accessibility settings

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

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

Auto restart at set times

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

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

Factory Data Reset

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

This action permanently erases ALL data from the device, including Google or other account settings, system and application data and settings, downloaded applications, as well as your music, photos, videos, and other files. Any data stored on an external SD card is not affected.

If you sign in to a Google Account on your device and set a Lock screen, Google Device Protection is automatically enabled.




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

Before resetting your device:

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

To reset your device:

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

Google Device Protection

When you sign in to a Google Account on your device and set a Lock screen, Google Device Protection is enabled. This service protects your phone from unauthorized factory data resets by requiring your Google account information to verify your identity. For more information, visit samsung.com/us/support/answer/ANS00083965.

Enable Google Device Protection

Adding a Google Account to your device and setting a Lock screen automatically activates Google Device Protection.


Disable Google Device Protection

To disable Google Device Protection, you can either remove all Google Accounts from the device or remove the Lock screen.

To remove Google accounts:

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

To remove a secure Lock screen:

1. From Settings, tap  **Lock screen** > **Screen lock type**.
2. Tap either **Swipe** or **None**.

Accessibility

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

[Recommended for you](#) | [TalkBack](#) | [Visibility enhancements](#) | [Hearing enhancements](#) | [Interaction and dexterity](#) | [Advanced settings](#) | [Installed apps](#) | [About Accessibility](#) | [Contact us](#)


Recommended for you

View a list of accessibility features that you are using and some recommended features you may want to enable.

- From Settings, tap  **Accessibility** > **Recommended for you** to view recommendations.

TalkBack

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


1. From Settings, tap  **Accessibility** > **TalkBack**.
2. Tap to enable the feature, and tap an option to customize:
 - **TalkBack shortcut:** Choose a shortcut to quickly turn on TalkBack.
 - **Settings:** Configure TalkBack settings to better assist you.

Visibility enhancements

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

Colors and clarity


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

- From Settings, tap  **Accessibility** > **Visibility enhancements** and tap an option:
 - Choose an available display mode and tap **Apply**:
 - **Default:** Default display mode.
 - **High contrast:** Dark mode, High contrast fonts, High contrast keyboard, Remove animations, and Reduce transparency and blur are turned on.
 - **Large display:** Font size and Screen zoom are increased and Bold font and Highlight buttons are turned on.
 - **High contrast theme:** Adjust colors and screen fonts to increase the contrast for easier viewing.
 - **High contrast fonts:** Adjust the color and outline of fonts to increase the contrast with the background.
 - **High contrast keyboard:** Adjust the size of the Samsung keyboard and change its colors to increase the contrast between the keys and the background.
 - **Highlight buttons:** Show buttons with shaded backgrounds to make them stand out better against the wallpaper.

- **Color inversion:** Reverse the display of colors from white text on a black background to black text on a white background.
- **Color correction:** Adjust the color of the screen if you find it difficult to see some colors.
- **Remove animations:** Remove certain screen effects if you are sensitive to motion.
- **Reduce transparency and blur:** Reduce visual effects on dialogs and menus to make them easier to see.
- **Extra dim:** Dim the screen beyond the minimum brightness setting for more comfortable viewing. Tap for additional options.

Size and zoom

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


- From Settings, tap  **Accessibility** > **Visibility enhancements** and tap an option:
 - **Magnification:** Use exaggerated gestures such as triple-tapping, double pinching, and dragging two fingers across the screen.
 - **Large mouse/touchpad pointer:** Use a large pointer for a connected mouse or touchpad (accessories not included).
 - **Font size and style:** Configure screen fonts.
 - **Screen zoom:** Configure the screen zoom level.

Hearing enhancements

You can configure Accessibility features to assist with audial aspects of the device. Options may vary by carrier.

Sounds

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


- From Settings, tap  **Accessibility** > **Hearing enhancements** and tap an option:
 - **Real time text:** Activate real-time text (RTT) calling.
 - **Live Transcribe:** Use the microphone to record speech and convert it to text.
 - **Live Caption:** Automatically caption speech in media played on your device.
 - **Caption preference:** Configure closed caption and subtitle services.
 - **Sound notifications:** Receive alerts when the device detects a baby crying or a doorbell.
 - **Hearing aid support:** Improve the sound quality to work better with hearing aids.
 - **Amplify ambient sound:** Enable this feature and connect headphones to your device to amplify the sounds of conversations.
 - **Adapt sound:** Customize the sound for each ear and enhance your listening experience. See [Adapt sound](#).
 - **Mute all sounds:** Turn off all notifications and audio for privacy.
 - **Mono audio:** Switch audio from stereo to mono when using one earphone.
 - **Left/right sound balance:** Use the sliders to adjust the left and right balance for connected audio and device speakers.

Interaction and dexterity

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


Alternate input

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

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
 - **Universal switch:** Control your device with your customized switches.
 - **Assistant menu:** Improve device accessibility for users with reduced dexterity.
 - **Voice Access:** Voice Access lets you control your device hands-free. Use voice commands to open apps, tap buttons, scroll, type, and more.


Interactions

You can simplify the motions needed to answer phone calls or respond to notifications and alarms.

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
 - **Answering and ending calls:**
 - **Read caller names aloud:** Hear callers' names read aloud when using Bluetooth or headsets (sold separately).
 - **Answer automatically:** Answer calls after a set duration when using Bluetooth or headsets (sold separately).
 - **Press Volume up to answer calls:** Use the Volume keys to answer calls.
 - **Press Side key to end calls:** End calls by pressing the Side key.
 - **Interaction control:** Customize areas of screen interactions, hardkeys, and the keyboard.


Touch settings

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

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

Mouse and physical keyboard

Configure settings for a connected mouse and physical keyboard.

- From Settings, tap  **Accessibility** > **Interaction and dexterity** and tap an option:
 - **Auto action after pointer stops:** Automatically click on an item after the pointer stops over it.
 - **Sticky keys:** When you press a modifier key like Shift, Ctrl, or Alt, the key stays pressed down, which allows you to enter keyboard shortcuts by pressing one key at a time.
 - **Slow keys:** Set how long a key must be held before it is recognized as a press, which helps avoid accidental key presses.
 - **Bounce keys:** Set how long to wait before accepting a second press from the same key, which helps avoid accidentally pressing the same key multiple times.


Advanced settings

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




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

Accessibility shortcuts

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


Notifications

- From Settings, tap  **Accessibility** > **Advanced settings** and tap an option:
 - **Flash notification:** Flash either the camera light or the screen when you receive notifications or when alarms sound.
 - **Time to take action:** Choose how long to show messages that ask you to take action, but are visible only temporarily (like notifications).
 - **Speak keyboard input aloud:** The device will read aloud what you type on the keyboard.
 - **Voice Label:** Write voice recordings to NFC tags (not included) to provide you with information about objects or locations as you near them.

Installed apps


You can install additional assistance services for your device.

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

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

About Accessibility

Legal and license information about the current Accessibility software is available in Settings.

- From Settings, tap  **Accessibility** > **About Accessibility**. The following information is available:
 - **Version:** View the current Accessibility software version.
 - **Open source licenses:** View information for the open source licenses used for Accessibility.

Contact us

If you have any questions or problems while using your device contact Samsung support through Samsung Members. Access community forums, error reports, remote support and more (if supported by your carrier).

- From Settings, tap  **Accessibility** > **Contact us**.

Other settings

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

[User manual](#) | [Android Auto](#) | [Dual Messenger](#) | [Medical info](#) | [Quick Share](#) | [Labs](#) | [About phone](#)

User manual

View the user manual for your device.

- From Settings, tap  **User manual**.

Android Auto

Android Auto brings the most useful apps to your device screen or your compatible car display in a format that makes it easy for you to keep your main focus on driving. You can control features like navigation and maps, calls and text messages, and music.

- From Settings, tap  **Advanced features** > **Android Auto**.

Connect your device

Before you connect your device for the first time, turn on your car and allow time to set up Android Auto.


1. Plug a USB cable into your vehicle's USB port and plug the other end of the cable into your device.
2. Your device may ask you to download the Android Auto app or update to the newest version of the app. Follow the prompts and complete your setup.
3. On your car's display select Android Auto and follow the prompts.



NOTE Your device's Bluetooth is turned on automatically when Android Auto is connected to your car through USB.



Dual Messenger

Use two separate accounts for the same app.

1. From Settings, tap  **Advanced features** > **Dual Messenger**.
2. Tap next to supported apps to enable the feature for each app.
 - To select which contacts have access to the secondary messenger app, tap **Use separate contacts list**.


Medical info

Emergency responders and others can access your medical info even when your device is locked.

1. From Settings, tap  **Safety and emergency** > **Medical info**.
2. Tap  **Edit** and then tap any of the fields to add, change, or delete information.
3. Tap **Save**.

Quick Share

Anyone with a Samsung account can use Quick Share to share files with your device.

- From Settings, tap  **Advanced features** > **Quick Share** for the following options:
 - **Samsung account:** Tap to sign in and share with more people.
 - **Phone name:** Edit the name of your phone that will be seen by other devices.
 - **Who can share with you:** Disable sharing, allow only Samsung account users in your contacts to share, or allow anyone nearby to share with you.
 - **Convert videos to compatible format:** HDR10+ and high resolution videos will be converted to standard resolution videos.
 - **Link sharing history:** View sharing history for your Samsung account.
 - **Use Wi-Fi only:** Tap to enable Quick Share only when connected to Wi-Fi.
 - **Auto delete expired files:** Tap to select an option to manage how your files are deleted or to turn the setting off.
 - **Privacy notice:** Explains how Samsung handles your information when you use Quick share services.
 - **About Quick Share:** Tap to see additional information about Quick Share including version, the Terms and Conditions, and more.


Labs

Try experimental features. Some features may not work correctly with all apps.

1. From Settings, tap  **Advanced features** > **Labs**.
2. Tap  to enable an experimental feature.

About phone

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

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



TIP You can view your device's FCC ID from  **About phone** > **Status information**.

Samsung Knox

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

Learn more

Videos

youtube.com/samsungcare

Samsung Care+

samsung.com/us/support

Talk to an agent

Contact us on [Facebook Messenger](#)

Find us on [Facebook](#)

Follow us on [Twitter](#)

Tips

samsung.com/us/support/tips

Legal information

READ THIS INFORMATION BEFORE USING YOUR MOBILE DEVICE.

Arbitration Agreement - This Product is subject to a binding arbitration agreement between you and SAMSUNG ELECTRONICS AMERICA, INC. ("Samsung"). You can opt out of the agreement within 30 calendar days of the first consumer purchase by emailing optout@sea.samsung.com or calling 1-800-SAMSUNG (726-7864) and providing the applicable information.

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

Phone:

- English: samsung.com/us/support/legal/mobile
- Spanish: samsung.com/us/support/legal/mobile-sp

This information can also be found on the device in the "About device" or "About phone" or "About tablet" section, for example:

- **Settings > About phone or About device or About tablet > Legal information > Samsung legal**
- Or, search "Legal"

If your device required Federal Communications Commission (FCC) approval, you can view the FCC certification by opening **Settings > About phone or About device or About tablet > Status information**.

Restricting children's access to your mobile device

Your mobile device is not a toy. Do not allow children under the age of 3 to play with it because they could hurt themselves or others or damage the device. If parents choose to allow children 3 or older to use the device, they should make sure that there is adequate supervision to guard against injury or damage and use of services that may increase data costs or other charges.

Parental control settings should be enabled to ensure that children do not have access to services or content not approved by the parent. Routinely check this device to ensure it is working properly and is safe for children to use.

Samsung Electronics America, Inc.

Address:

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Ridgefield Park
New Jersey 07660

Phone: 1-800-SAMSUNG (726-7864)

Internet: samsung.com

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

Screen images are simulated. Appearance of device may vary.

Descriptions are based on the device's default settings. Some content may differ depending on carrier, model, or software.

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

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