

SafeCase

ONIX™

User Manual for Galaxy S23

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About SafeCase ONX

Purpose

SafeCase ONX (Onyx) is a trusted hardware device providing secure and independent control of Galaxy S23's audiovisual and wireless connectivity capabilities, allowing you to effectively disable (and reenable) the phone's potential enablement of surveillance and tracking. A unique hardware-to-hardware integration between ONX and Galaxy S23 provides you with secure, independent verification that specified hardware components are truly disabled on the commercial phone.

Controllable Hardware Components

ONX can be used to control the following hardware components:

Sensors for audiovisual capture

- Four cameras
- Three microphones

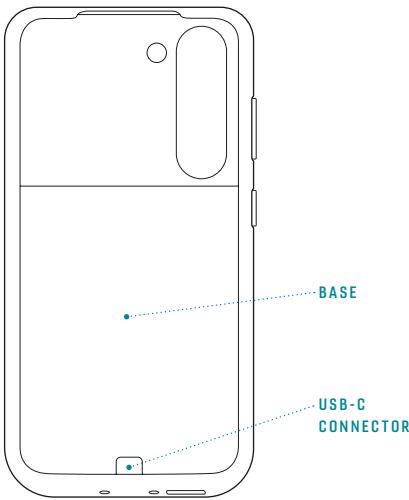
Radios for wireless connectivity

- Cellular and GPS (shared module)
- WiFi
- Bluetooth
- NFC (coming 2024)

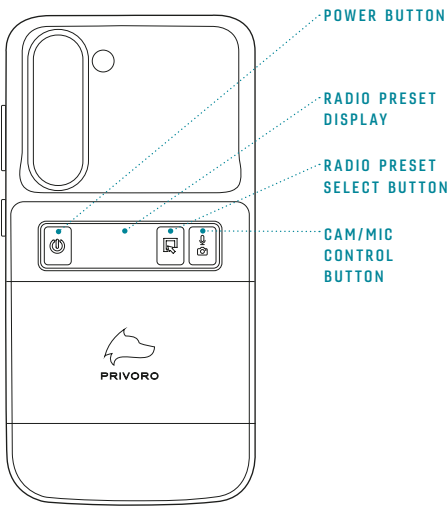
Parts and Accessories

ONX ships with a three-foot USB-C charging cable, which will connect to your power adapter. For charging ONX, we recommend that you use Samsung's 25W PD Power Adapter (model EP-T2510).

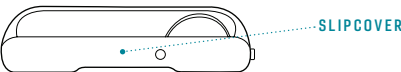
FRONT



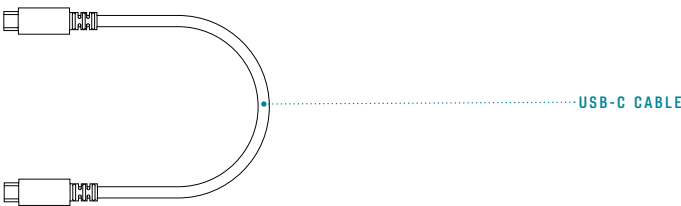
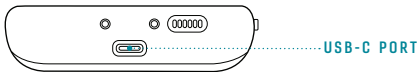
BACK



TOP



BOTTOM



SLIPCOVER Bends back to enable S23 insertion/removal

BASE Holds S23 in place

USB-C CONNECTOR Enables ONX and S23 to share power

USB-C PORT Accommodates the included USB-C charging cable

POWER BUTTON For powering ONX on/off and adjusting LED brightness; displays battery level and charging status

RADIO PRESET DISPLAY Displays the current/desired radio preset of the installed phone

RADIO PRESET SELECT BUTTON For selecting and applying a radio preset to the installed phone

CAM/MIC CONTROL BUTTON For turning S23 cameras and microphones on/off; displays camera/microphone status

USB-C CABLE Charges both ONX and S23 when connected to an appropriate power source

Setting up ONX

Before You Begin

To ensure that your S23 and ONX work properly together, your phone must be running the latest version of the Android operating system (OS).

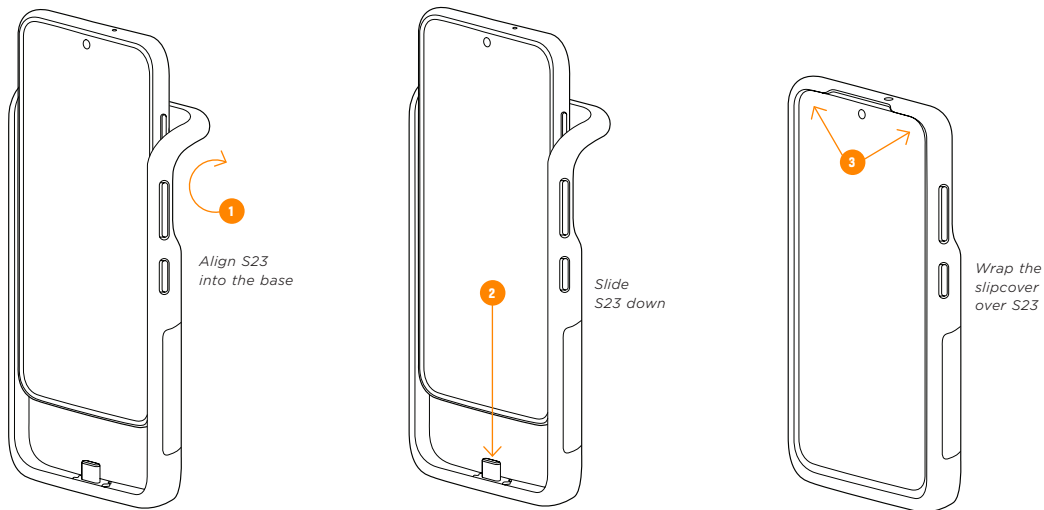
Specifically, the OS must be the following (or later) release:

- Baseband versions: S911USQU4CXH7 (carrier-locked) and S911UOYN4CXH7 (unlocked)
- Release date: September 14, 2024

You can check your OS version in the Settings app (Settings > About Phone > Software Information).

Step 1: Insert S23 Into ONX

To insert S23 into ONX:



1. Bending the slipcover back, align S23 into the grooves on the sides of the base.

2. Slide S23 down until it fits snugly on the USB-C connector.

Once S23 and ONX are connected, a confirmation tone will play and all LEDs will briefly flash.

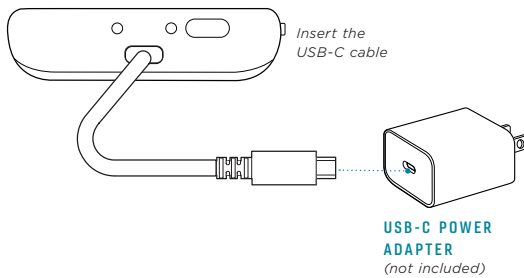
3. Wrap the slipcover over the top corners of S23.

Step 2: Begin Charging

With S23 inserted into ONX, you can now start to charge ONX for initial use. To do so, you will need the included USB-C cable and a power adapter with a minimum 9V/20W output, such as Samsung's 25W PD Power Adapter (model EP-T2510).

To charge ONX and S23:

1. Insert one end of the USB-C cable into ONX's USB-C port and the other end into the plugged-in USB-C power adapter.

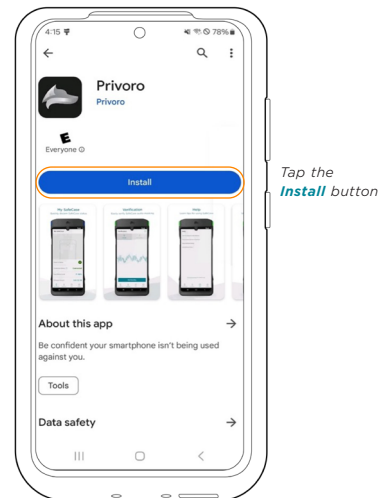


Step 3: Install, Open and Configure the Privoro App

The Privoro app provides information on current ONX status, among other functions. Behind the scenes, the app also enables an encrypted communications channel between ONX and S23.

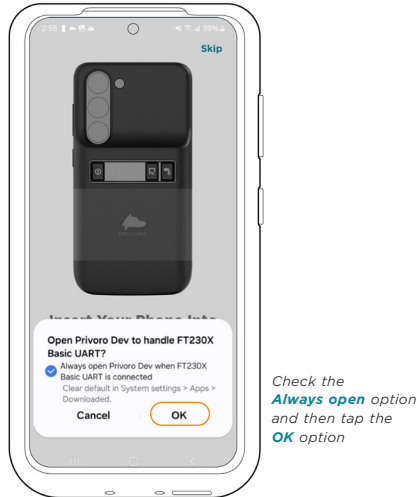
To set up the Privoro app:

1. First, install the Privoro app.
 - a. On your S23, open the Play Store app.
 - b. In the Play Store app, enter **Privoro** in the search field.
 - c. Tap the listing for the **Privoro app**.
 - d. In the app listing, tap the **Install** button.

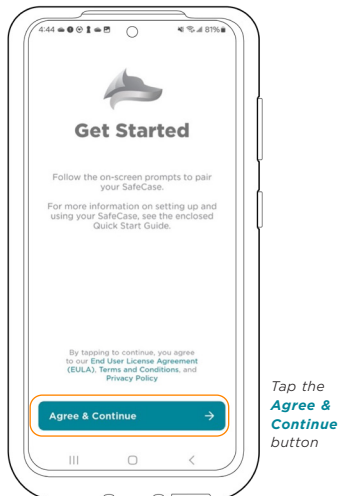


2. Once installed, open the Privoro app by tapping the Open button (or by tapping the Privoro icon on your home screen).

3. Opening the app for the first time, you will be prompted to allow data exchange between ONX and S23 (necessary for controlling S23's radios and cameras/microphones). Check the **Always open** option. Tap the **OK** option to proceed.



4. On the Get Started screen, before agreeing to the End User License Agreement (EULA), Terms and Conditions, and Privacy Policy, you can open each by tapping the appropriate option. Tap the **Agree & Continue** button to proceed.

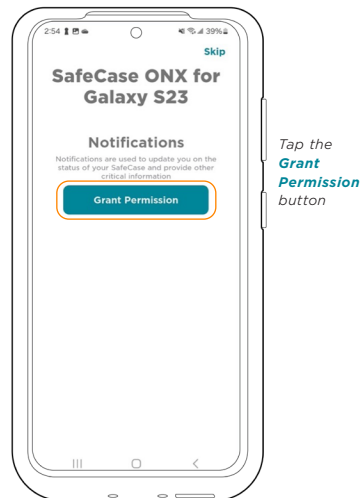


5. On the next screen, you will be notified that your ONX is now connected to S23 and ready to use. Tap the **Start Using SafeCase** button to proceed.

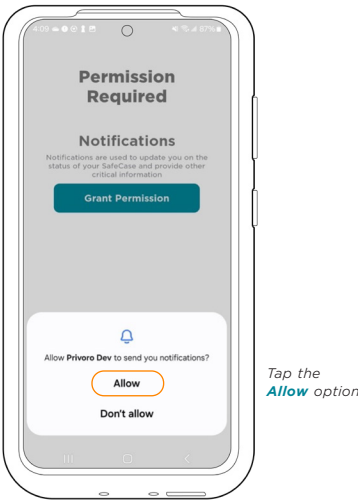


6. On the Permission Required screen:

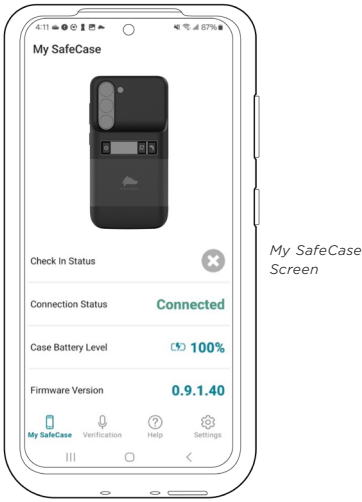
- a. Tap the **Grant Permission** button to allow the app to send you notifications (necessary for receiving ONX status updates).



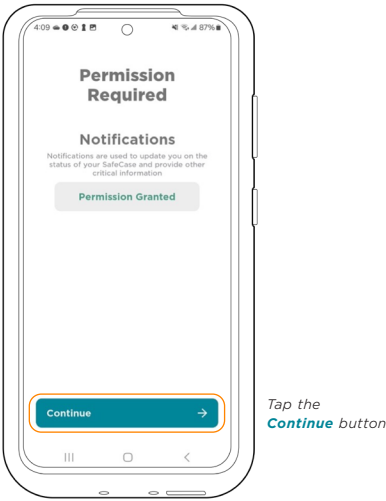
- b. When prompted to confirm, tap the **Allow** option.



When setup has completed, the My SafeCase (home) screen of the app will open.



- c. Tap the **Continue** button to finish the setup process.

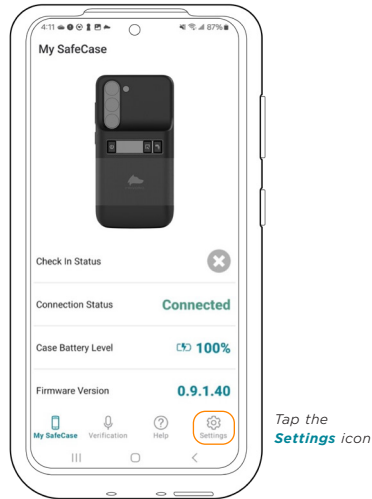


Step 4: Update ONX Firmware

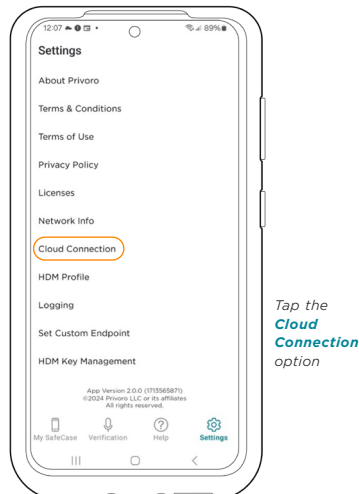
ONX will need to update its firmware to a version supporting core features. To do so, a cloud connection must first be enabled for ONX.

To update ONX firmware:

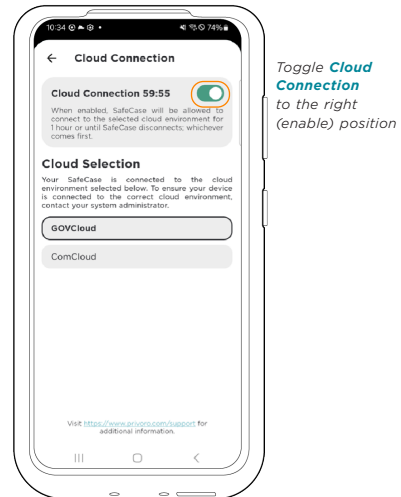
1. In the Privoro app, tap the **Settings** icon in the navigation bar.



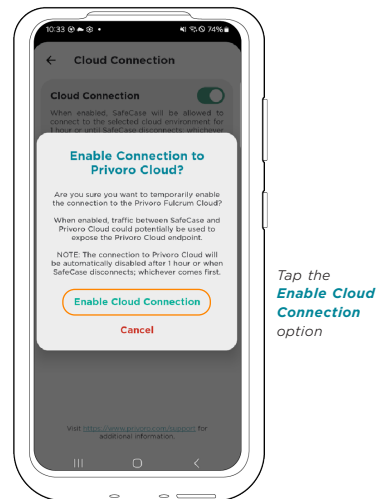
2. On the Settings screen, tap the **Cloud Connection** option.



3. On the Cloud Connection screen, toggle the **Cloud Connection** option to the right (enable) position.



4. When prompted to confirm, tap the **Enable Cloud Connection** option.



Once connected to the cloud, ONX will automatically update to the latest firmware. This process should take less than 10 minutes.

Step 5: Activate Your HDM Key

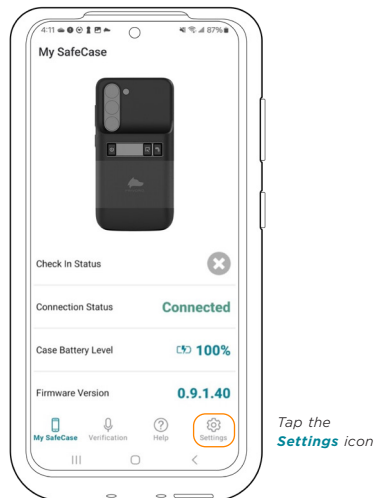
ONX leverages Samsung's Hardware Device Manager (HDM) for its hardware-to-hardware integration with S23. Activating this HDM integration requires a one-year HDM subscription. As part of this subscription, you should have received a printed document containing your HDM Key from Privoro or your system administrator.

Note that once the HDM Key has been installed and activated on your S23:

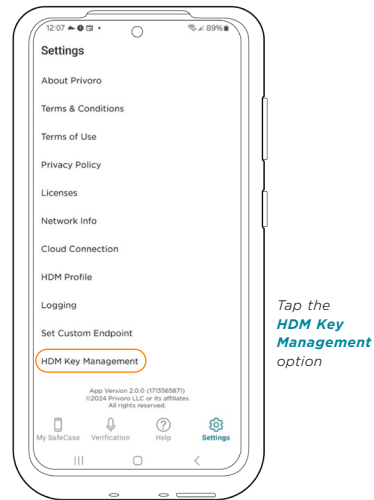
- The activation cannot be reversed.
- The HDM Key cannot be used again.
- The HDM Key cannot be transferred to another phone.

To activate your HDM Key:

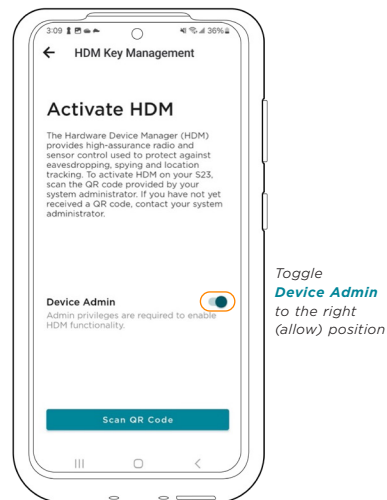
1. In the Privoro app, tap the **Settings** icon in the navigation bar.



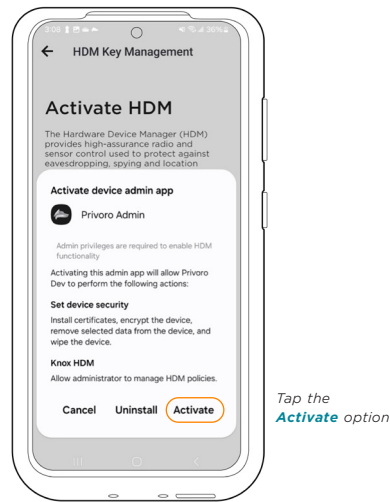
2. On the Settings screen, tap the **HDM Key Management** option.



3. On the Activate HDM screen, toggle the **Device Admin** option to the right (allow) position.



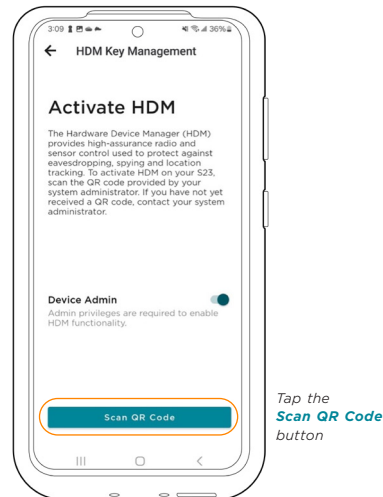
4. When prompted to confirm, tap the **Activate** option.



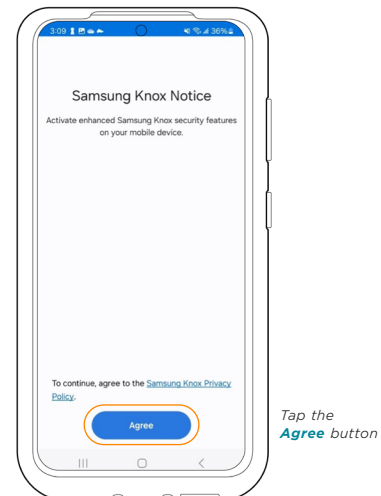
6. With the QR code scanner activated, hold S23's rear-facing camera over the QR code for your HDM Key until the code is centered within the guidelines on the screen.



5. Back on the Activate HDM screen, tap the Scan QR Code button.



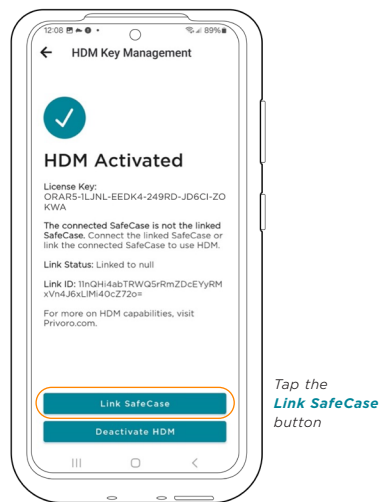
7. On the Samsung Knox activation screen, tap the **Agree** button.



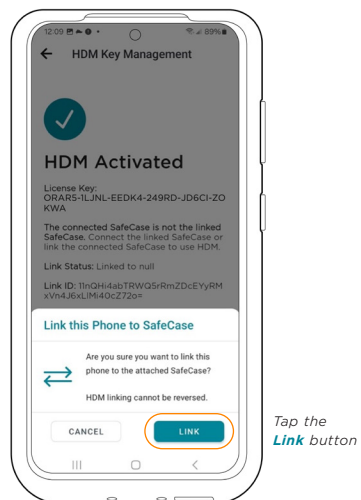
An “HDM Activated” success message will display, along with the 30-digit subscription key.

Finally, you will be prompted to link SafeCase to your phone, which is necessary to allow SafeCase to securely control S23's hardware. Note that linking cannot be reversed; once linked, SafeCase will only be able to control the linked phone's hardware.

- On the HDM Activated screen, tap the **Link SafeCase** button.



- In the confirmation message, tap the **Link** button.

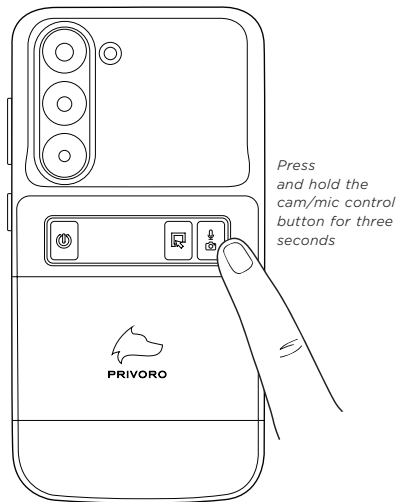


Controlling S23 Cameras and Microphones

The cam/mic control button is used to securely disable (and reenable) S23's cameras and microphones at a hardware level.

To disable/reenable S23's cameras and microphones:

1. Press and hold the cam/mic control button for three seconds, until the button's LED pulses white, indicating the camera/microphone change is in process. After the cameras and microphones are confirmed disabled/enabled, a confirmation tone will play and the button's LED will blink green (if disabled) or red (if enabled).



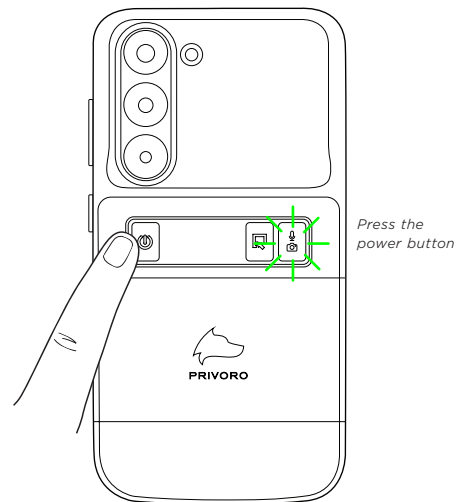
Verify Camera and Microphone Disablement

You can verify that cameras and microphones have been successfully disabled via ONX or through manual verification.

VIA ONX

To verify camera and microphone disablement via ONX:

1. Press the power button to display the current camera/microphone mode. When cameras and microphones are disabled, the cam/mic control button's LED will be illuminated green.



VIA MANUAL CAMERA/MICROPHONE CAPTURE

To manually verify camera and microphone disablement:

1. Using the Camera app on your S23, try recording a video. You should not be able to capture video or sound.

Controlling S23 Radios

The radio preset select button is used to disable (and reenable) S23's radios – cellular (and GPS), WiFi, Bluetooth and NFC (coming 2024) – with high certainty.

For the sake of simplicity, radio configurations are available as presets. By default, the two available presets are cellular silent mode (cellular/GPS disabled) and radio silent mode (all radios disabled). Note that your ONX administrator may choose to customize your available presets to suit particular use cases.

Number/icon	Name	Description
1	Cellular silent mode	Cellular (and GPS) disabled
2	Radio silent mode	All radios disabled
Emitting phone	All phone radios enabled	All radios enabled

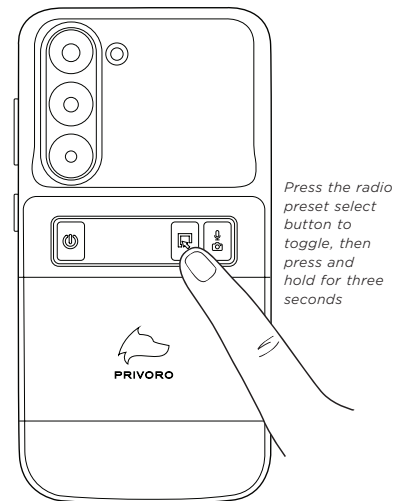
Default radio presets

When moving from all phone radios enabled to a preset or back again, S23 will restart to securely apply the radio state change.

Note that when you have disabled one or more radios via ONX, you can only reenable them via ONX, not the phone. Attempts to reenable one or more radios through the Android OS (via the notification panel or Settings app) will not be successful.

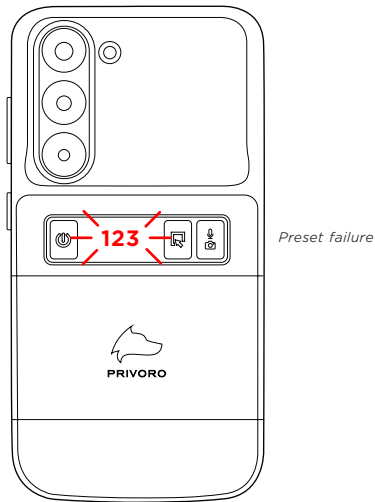
To disable/reenable one or more of S23's radios:

1. Press the radio preset select button to toggle through the three options – preset 1, preset 2 and all phone radios enabled (indicated by an icon of an emitting phone) – until the desired preset is reached, then press and hold the button for three seconds.



The preset number/icon will pulse white on the radio preset display as the phone is being rebooted. When the preset has been successfully applied, a confirmation tone will play and the preset number/icon will briefly flash green (for presets 1 or 2, indicating protections have been implemented) or red (for all phone radios enabled, indicating protections have not been implemented).

If the radio state change is unsuccessful, “123” will flash red on the radio preset display. Try the process again.



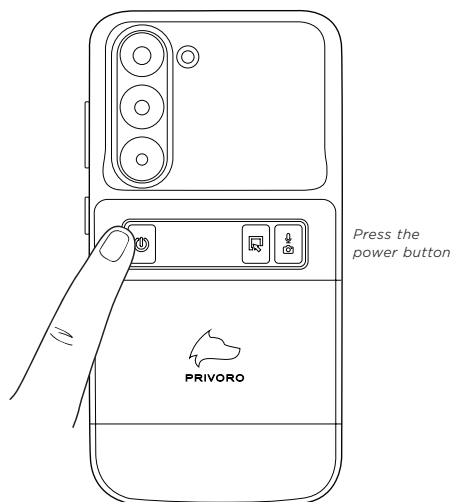
Verify Radio Disablement

You can verify that radios have been successfully disabled via ONX or S23.

VIA ONX

To verify radio disablement via ONX:

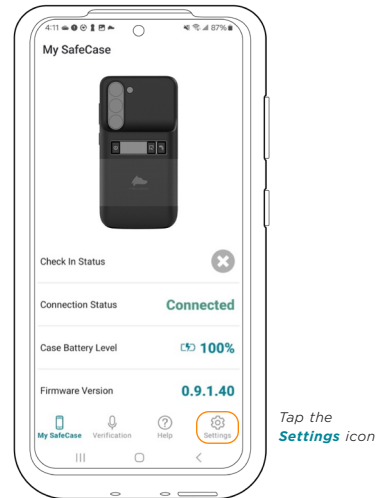
1. Press the power button to briefly display the current radio preset in the radio preset display.



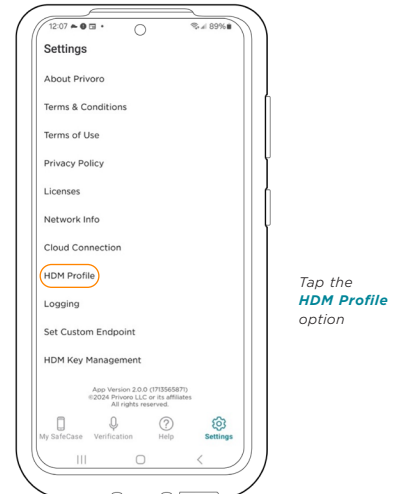
VIA THE PRIVORO APP

To verify radio disablement via the Privoro app:

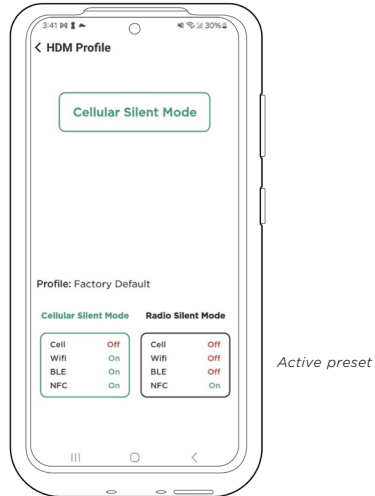
1. In the Privoro app, tap the **Settings** icon in the navigation bar.



2. On the Settings screen, tap the **HDM Profile** option.



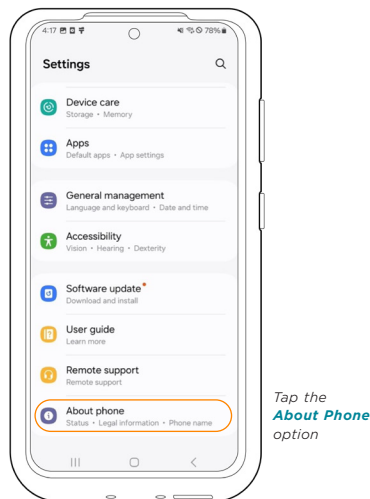
3. On the HDM Profile screen, the name of the active radio preset will be displayed, along with an overview of that preset's individual radio states.



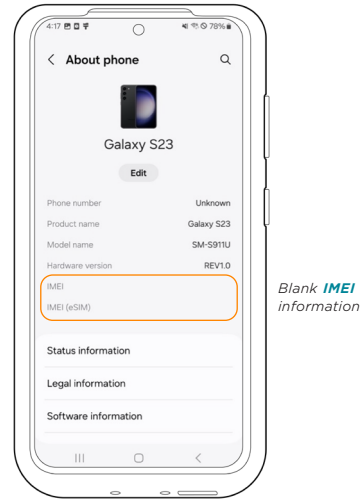
VIA S23

To verify via S23 that cellular has been disabled:

1. On your S23, open the Settings app.
2. In the Settings app, tap the **About phone** option.

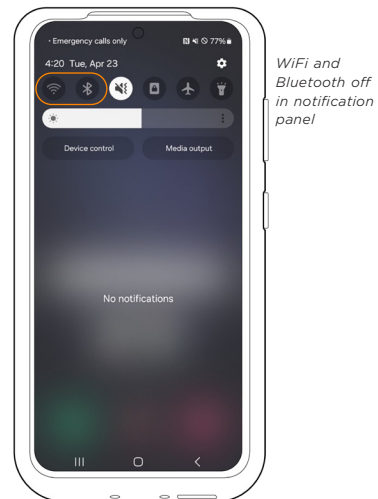


3. On the About phone screen, locate the **IMEI** information, which will be blank.



To verify via S23 that WiFi and/or Bluetooth have been disabled:

1. On your S23, swipe down from the top of the screen to open the notification panel and then verify that the WiFi and/or Bluetooth icons are grayed out.

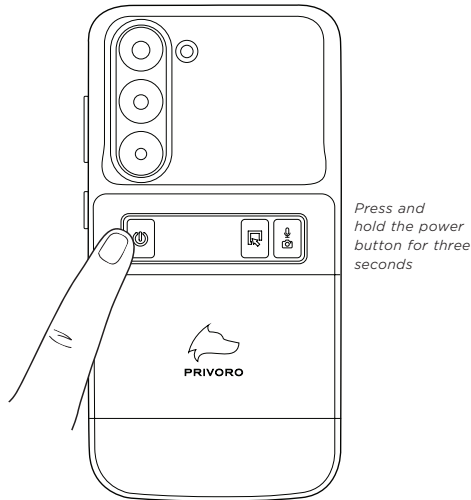


Managing power

POWER ON/OFF

To power ONX on/off:

1. Press and hold the power button for three seconds.



A confirmation tone will play and all LEDs will briefly flash, indicating the power on/off sequence has started.

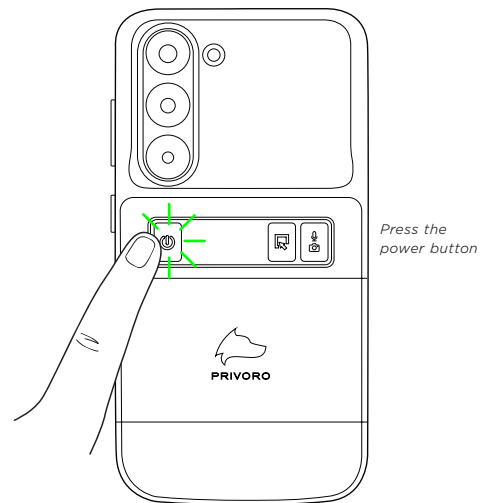
Check Battery Level

You can check ONX's battery level via ONX or the Privoro app.

VIA ONX

To check the battery level via ONX:

1. Press the power button.



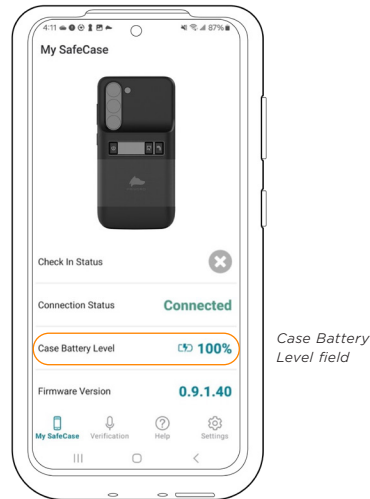
The button's LED will illuminate for four seconds in the color corresponding to the battery level.

Color of power button LED	Battery level
Green	41-100%
Yellow	11-40%
Red	0-10%

VIA THE PRIVORO APP

To check the battery level via the Privoro app:

1. In the Privoro app, locate the battery level, displayed in the **Case Battery Level** field on the My SafeCase screen.



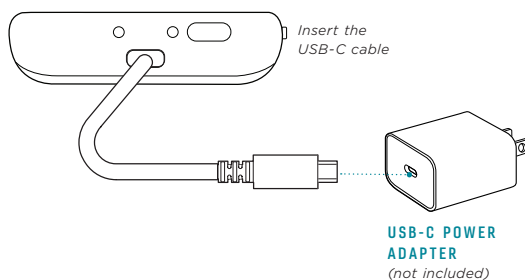
CHARGE

ONX and S23 are meant to be charged at the same time. We recommend charging each night to ensure that ONX has sufficient battery power for disabling and reenabling cameras/microphones and radios.

To charge ONX and S23, you will need the included USB-C cable and a power adapter with a minimum 9V/20W output. We recommend that you use Samsung's 25W PD Power Adapter (model EP-T2510).

To charge ONX and S23:

1. Insert one end of the USB-C cable into ONX's USB-C port and the other end into the plugged-in USB-C power adapter.

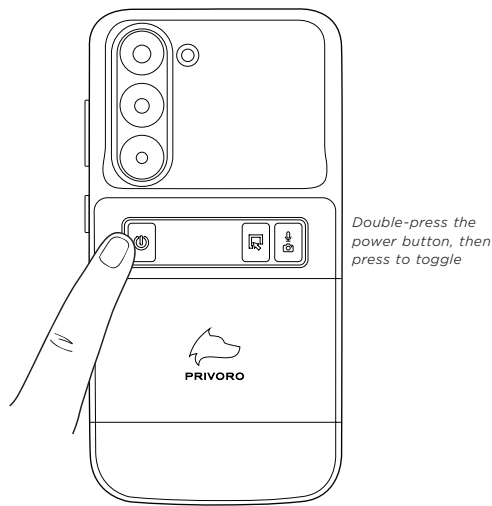


Adjusting settings

You may choose to change the brightness of the LEDs or turn them off completely.

To adjust LED brightness:

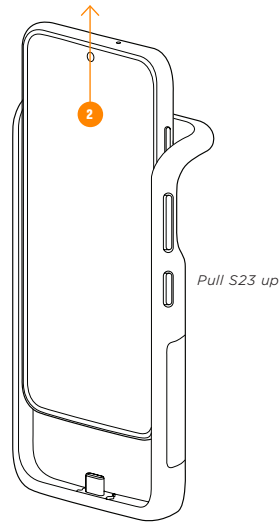
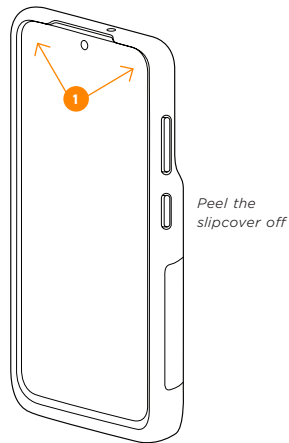
1. Double-press the power button to enable toggling, then press through the three brightness settings – bright, dim and off – until the desired setting is reached.



Removing S23 from ONX

To remove your S23 from ONX:

1. Peel the slipcover off the top corners of S23.
2. Bending the slipcover back, slide S23 straight up off the USB-C connector.



Once S23 has been removed from ONX, a confirmation tone will play.

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