

CarDroid™



User Guide

UonMap™

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support@uonmap.com

General Notes

Thank you for purchasing the CarDroid — an innovative connected car device on Android™ 4.4 OS. A CarDroid is an in-vehicle device created for monitoring and telematic services.

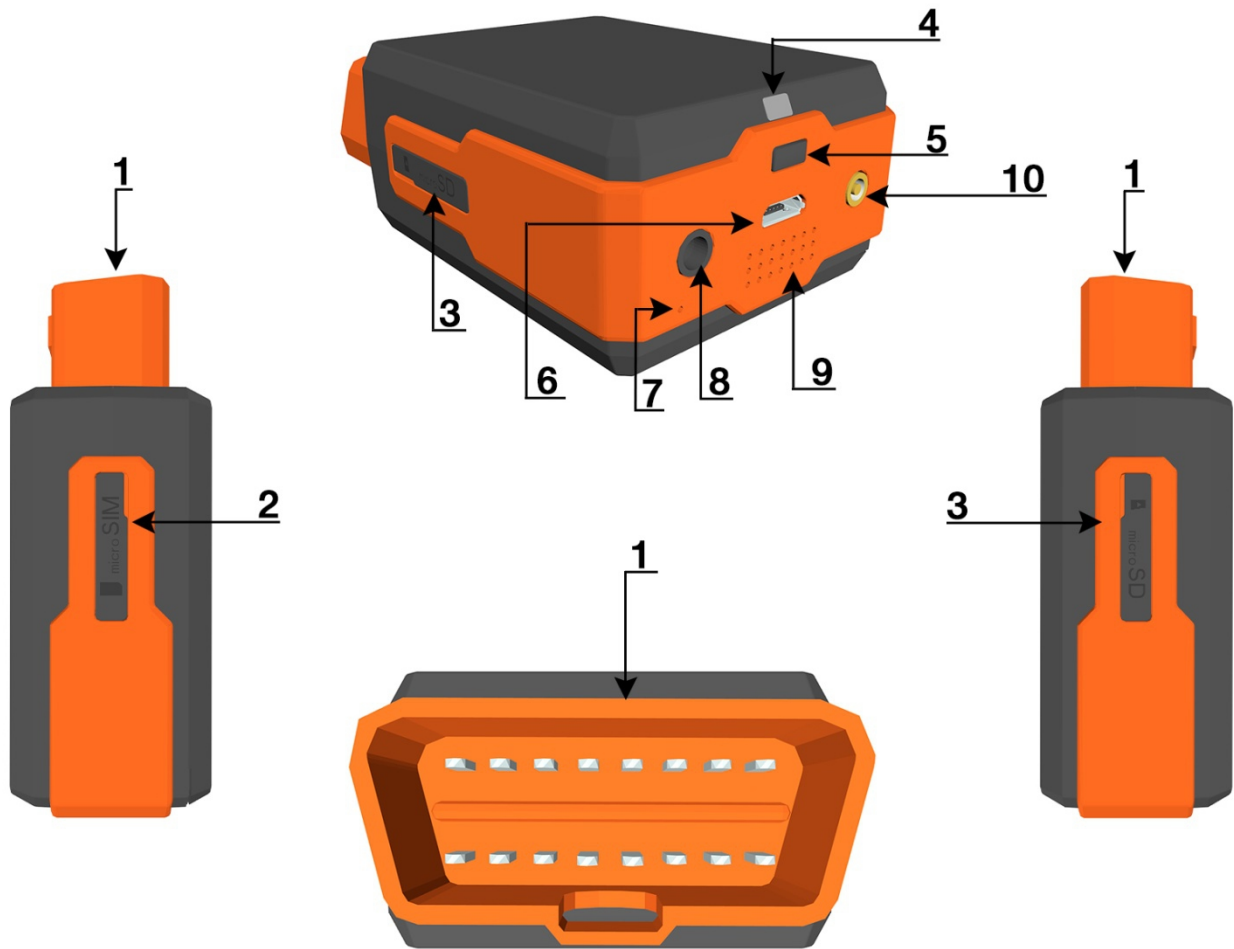
This guide shows how to set up your CarDroid. Please read this guide before using the device to ensure safe and proper use. Some content may differ, depending on the region, service provider, or device's software.

All specifications and information supplied herein are subject to change without prior notice. Any changes will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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Device Layout



- 1 — OBD-II connector
- 2 — micro-SIM card slot
- 3 — microSD card slot
- 4 — power and status LED indicator
- 5 — power button
- 6 — micro-USB port
- 7 — microphone
- 8 — audio Jack 3.5mm
- 9 — speaker
- 10 — external GPS antenna connector

Notes:

- MicroSD card expands local data storage. It is optional to use a microSD card.
- Power and status LED indicator shows if the device is on and informs of different functions' status.
- USB port enables you to charge your CarDroid when it is not connected to OBD-II port, or connect it to a computer for the parameters configuration and access internal storage of the device.
- The external GPS antenna connector allows you to connect an external GPS antenna to amplify GPS signal in the places where the signal is low.

Specifications

Dimensions	48x77x29mm
Network	3G (and HSPA+), GPRS, EDGE
Band	850/900/1800/1900MHz
Wi-Fi	802.11 b/g/n (2 Wi-Fi modules)
Bluetooth	BLE 4.0
Battery	1950 mAh Li-ion
Standby time	up to 12 hours
OS	Android™ 4.4
CPU	MediaTek MT6572, Dual-core, 1.2 GHz
RAM	512MB
ROM	4GB
Storage expansion	microSD up to 32GB
Microphone and speaker	Yes
USB	micro-USB
Audio jack	3.5mm
Sensors	9-axis Bosch orientation sensor (accelerometer, magnetometer, gyroscope), microwave motion sensor
Positioning accuracy	up to 5 meters

Features

Web account. A personal web account gives you an access to the whole functionality of the CarDroid. You will be able to monitor several vehicles simultaneously, use the complete range of services and choose which notifications you want to receive. To be able to use your web account on uonmap.com you need to complete the registration process.

ESNaR (Emergency Situation Notification and 3D Reconstruction). In a case of an accident you will instantly get an alert on your mobile device. In your account you will be able to see the detailed report including 3D reconstruction.

Note:

Fix your CarDroid in a car if you connect CarDroid via an OBD-II extension cord to avoid getting false notification.

Remote car diagnostics. The CarDroid diagnoses your vehicle automatically and keeps records of its condition. When an error is detected, you will get a notification with its trouble code. Once you log in to your web account, the “Events” section will have trouble codes and their descriptions. This data can be used for reports and detailed statistics.

Driver behavior monitoring. You can also setup

your account to receive notifications in case of an unsafe driver behavior: hard acceleration, hard braking, speeding, risky maneuvering, etc.

Alarm system. If your vehicle is being towed away, hit in a parking lot or in case of a break-in you will receive an alert.

Vehicle state notifications. You will be notified about the critical conditions of a vehicle: high engine temperature, low fuel/oil level, unusually high rpm, etc.

Positioning and tracking history. You can see where your car is located at any moment, track it online and check the vehicle route for any period of time.

Microphone remote listening. The CarDroid supports audio input/output through microphone. To speak to the driver of a vehicle or listen what is happening inside a car dial the number of the SIM card installed inside your CarDroid (only from the trusted numbers).

Wi-Fi hotspot. You can set up your CarDroid to act as a Wi-Fi hotspot. A password can be set in your UonMap account.

Geofencing. Set customized geofences on the map in your web account. If your vehicle leaves, enters or crosses the borders of such an area, you will be notified.

Parts and Accessories

1. CarDroid
2. GPS antenna (optional)
3. OBD-II extension cord (optional)
4. User Guide
5. Warranty Card and Coupon

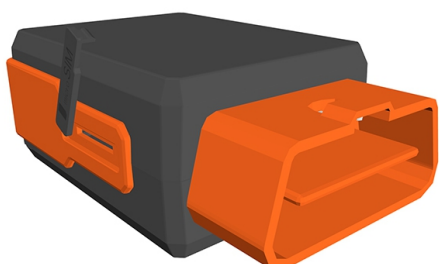
Applications

1. Please find applications for iOS / Android on our website uonmap.com, as well as App Store and Google Play Market. You can also scan the CarDroid QR-code to open the web page with our apps.

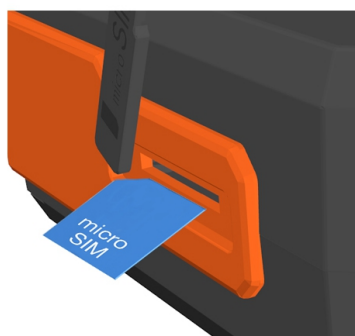


2. Install our app on your smartphone or tablet.

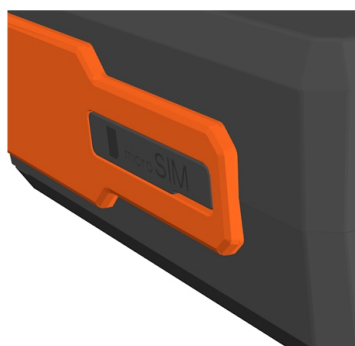
SIM Card Installation



Find and open a labeled SIM card cover on the device.



Push a SIM card into the slot as shown in the picture (make sure the circuit chip is facing down), until you hear a click and the SIM card is fixed securely in the slot.

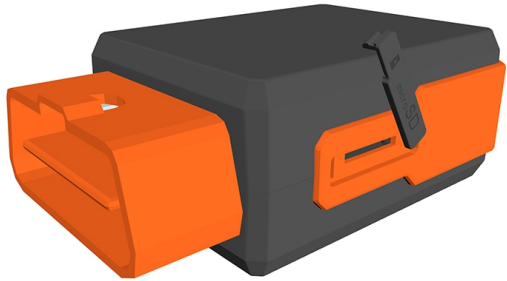


Put the cover back on.

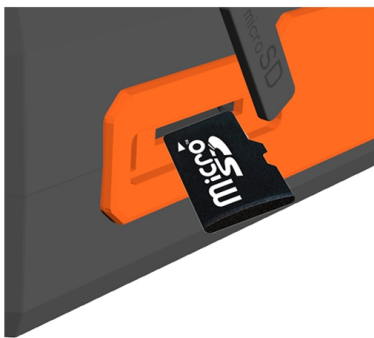
Notes:

1. To remove the SIM card push it until you hear the click.
2. Confirm your SIM card is connected to mobile data service (test it by using a smartphone).
3. Make sure your SIM card is unlocked (PIN function is disabled) by turning it off in your smartphone settings. If you do not know your PIN, contact your service provider.
4. Additional charges for data transfers may apply. Check with your carrier and use an appropriate mobile data plan.

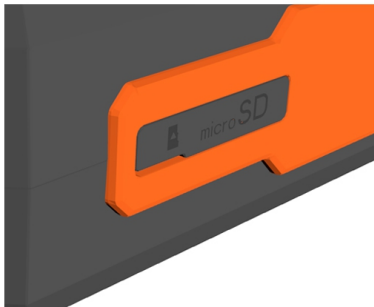
SD Card Installation



Find and open a labeled SD card cover on the device.



Push an SD card into the slot as shown in the picture, until you hear a click and the SD card is fixed securely in the slot.



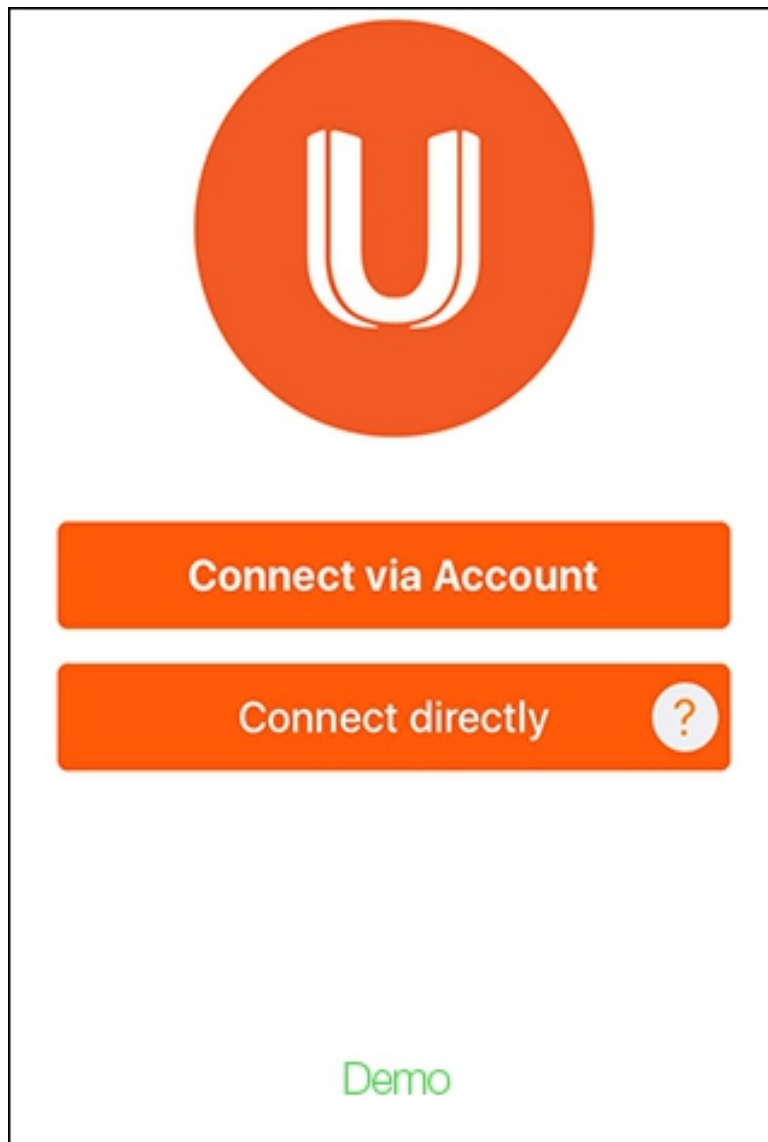
Put the cover back on.

Note:

To remove the SD card push it until you hear the click.

Getting Started

There are several ways to use the device.
Below you can see the main screen of iOS/Android apps.



1. Mobile app direct connection (without a SIM card)

- Plug the device into the OBD-II port of your vehicle. Check your car manual for the exact

location of the OBD-II port in your car.

- Wait until the LED indicator lights up. When the device is ready, you will hear a beep sound. If you do not hear any sounds, your CarDroid might be discharged. Leave it in the OBD-II port for some time until it is charged and turns on automatically.
- Press "Connect directly" and follow the steps.

2. Mobile app remote connection (requires a SIM card and mobile data)

- Install a SIM card.
- Plug the device into the OBD-II port of your vehicle.
- Wait until the LED indicator lights up. When the device is ready, you will hear a beep sound. If you do not hear any sounds, your CarDroid might be discharged. Leave it in the OBD-II port for some time until it is charged and turns on automatically.
- If your SIM card requires you to configure APN (Access Point Name) manually, send an SMS to the number of the inserted SIM card with the following text:

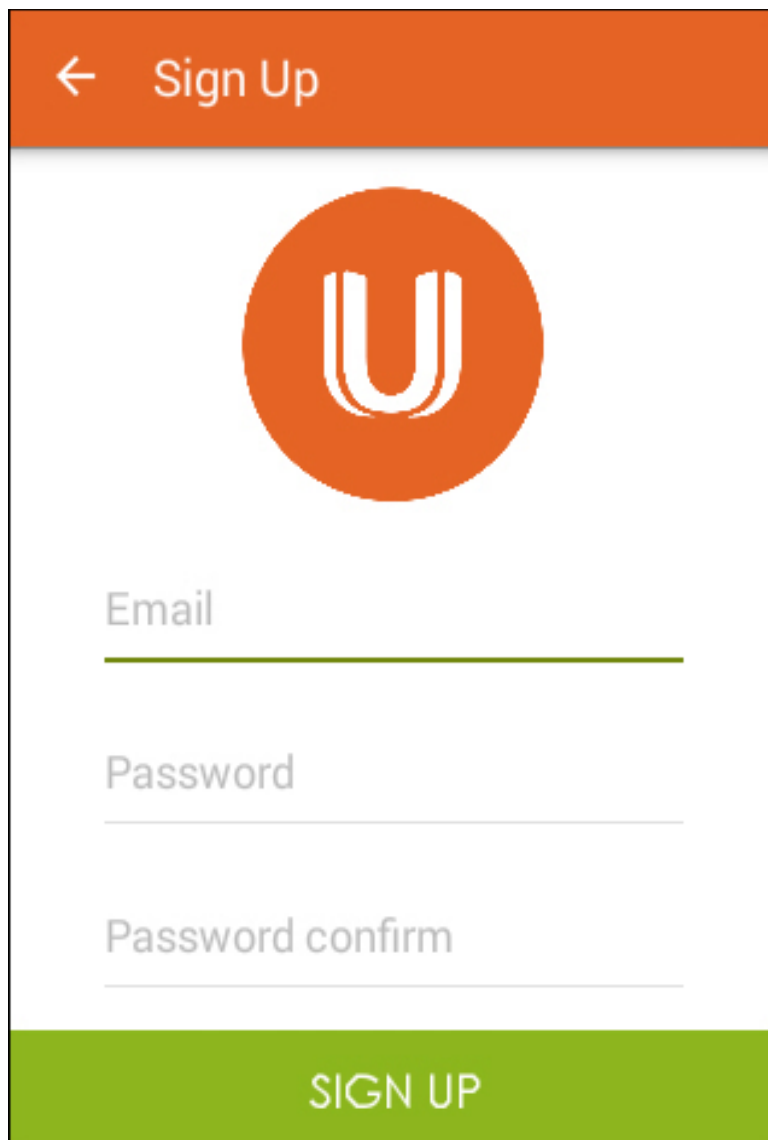
`cardroid.apn={apn}:{user}:{password}`

Enter the necessary data into the brackets { }. Do

not insert brackets { } in your SMS text. Example:
cardroid.apn=mycar:JohnSmith:password1

2.1. iOS/Android Apps: New Account

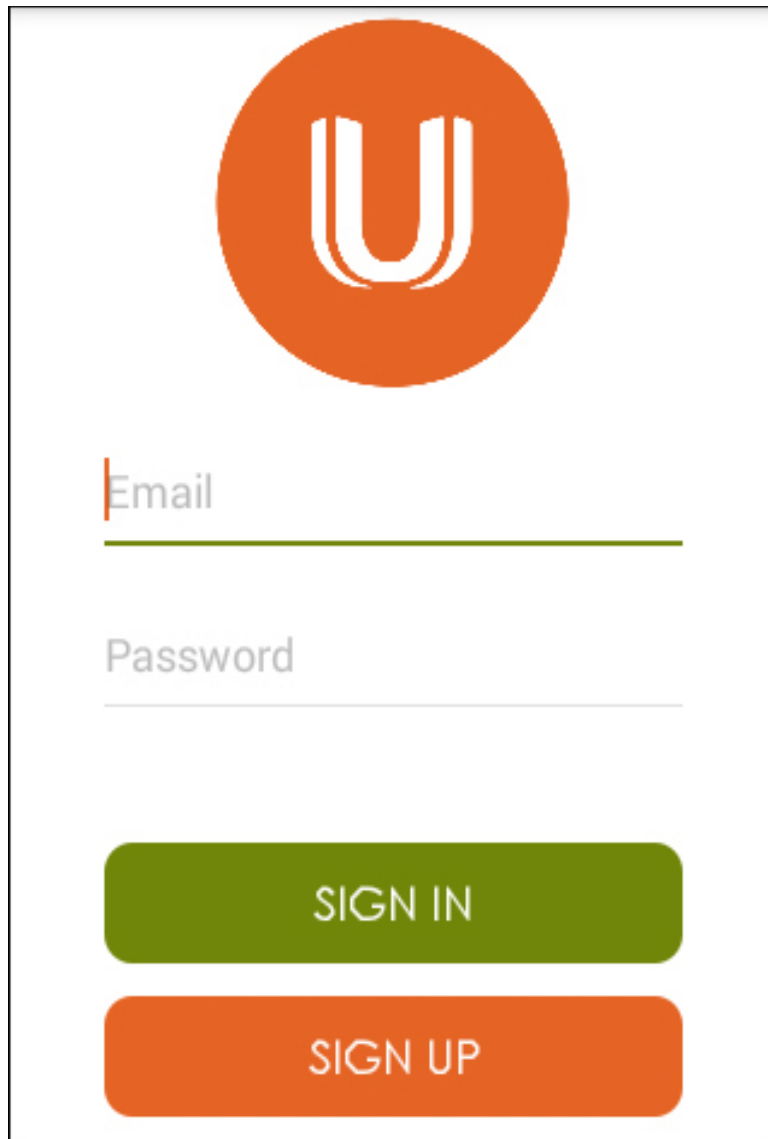
- Enter your email. It will be used to create your account and send notifications to it.
- Create and confirm your password.
- Click “SIGN UP” to create the account.



The screenshot shows the 'Sign Up' screen of the Uber app. At the top, there is an orange header bar with a white back arrow and the text 'Sign Up'. Below the header is a large orange circle containing a white stylized 'U' logo. Underneath the logo are three input fields with placeholder text: 'Email', 'Password', and 'Password confirm'. Each field has a horizontal line below it. At the bottom of the screen is a solid green button with the text 'SIGN UP' in white capital letters.

2.2. iOS/Android Apps: Existing Account

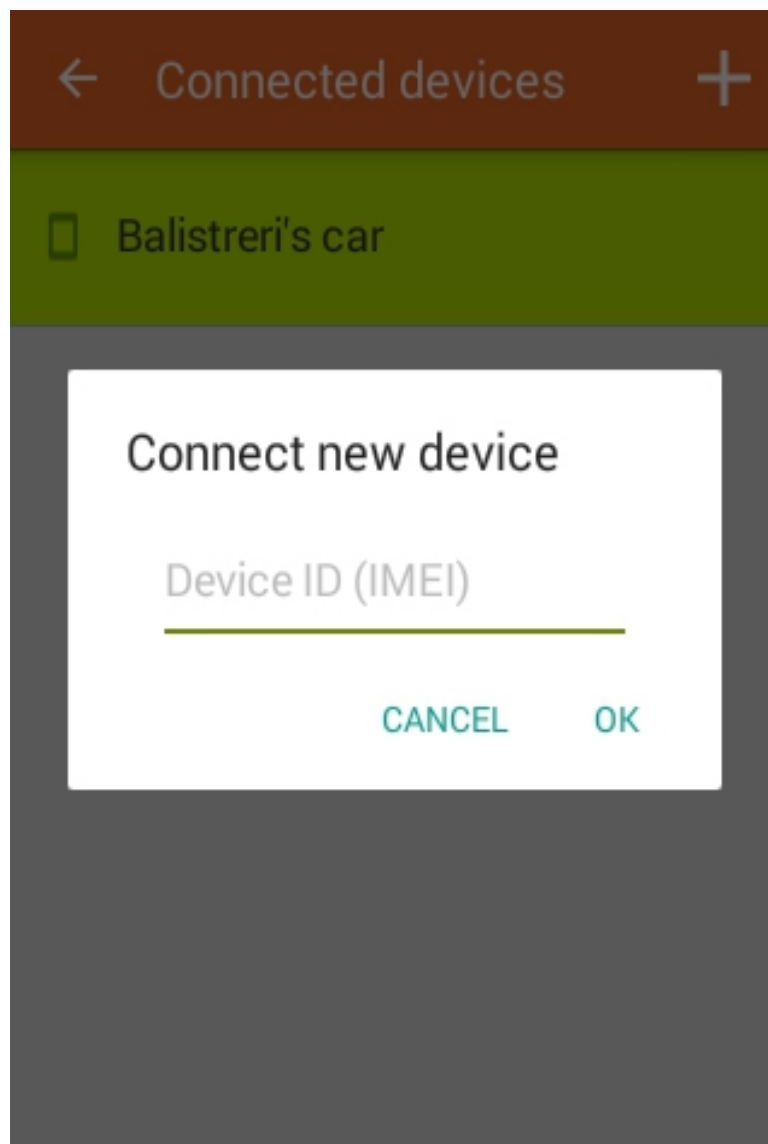
- Enter the email which was used to create your account.
- Enter your password.
- Click “SIGN IN” to enter the account.
- Click “SIGN UP” to create a new account.



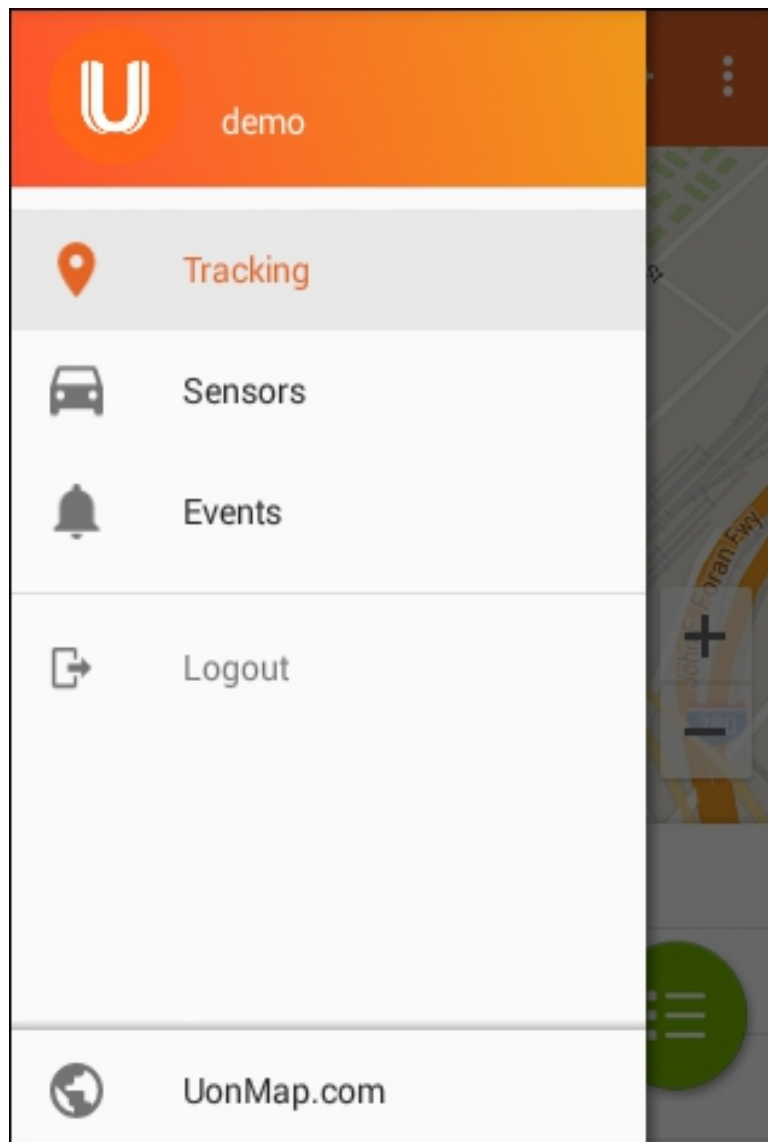
The image shows a mobile app login and sign-up screen. At the top is a large orange circle containing a white stylized 'U' logo. Below the logo are two input fields: the first is labeled 'Email' with a green underline, and the second is labeled 'Password' with a grey underline. At the bottom are two buttons: a green 'SIGN IN' button and an orange 'SIGN UP' button.

2.3. Managing Account

- Add a CarDroid to your account by entering the device's ID (IMEI).



- In your account menu you can track and check your vehicles data and see events (notifications).



3. Web access from PC/laptop without an app

Connect CarDroid

A step-by-step guide

1

Find OBD2 connector inside your car



2

Plug in CarDroid to your car's OBD2 port



3

Find IMEI of your device



Enter IMEI

IMEI

Check & Continue...

- Find OBD-II port inside your car and plug the CarDroid into the port.
- Follow the URL written on your CarDroid (uonmap.com/car).
- Download the mobile app or add your CarDroid to your web account by entering IMEI of your device on the web page and following the suggested steps.

Emergency Call

In case of an accident the CarDroid automatically dials an emergency number preset by its user. It is designed that way in case your phone is out of reach, or you are unable to dial a number yourself. Once the call is answered by your emergency contact, you will be able to communicate via built-in speaker.

If the volume of the built-in speaker is low, or the sensitivity of the internal microphone is insufficient, you can connect an external speaker and a microphone to 3.5mm audio jack.

Note:

To activate this function set an emergency number in your account.

Factory Data Reset

- Turn on the device.
- Press power button 10 times within 20 seconds to reset the device. The factory reset process will begin when you will hear a beep signal.

Warning!

All user data will be deleted from the device.

Troubleshooting

Before contacting a UonMap Service Center, please attempt the following solutions.

1. Your CarDroid does not turn on (LED indicator is off and there is no sound).

Reason:

If the battery is completely discharged and the device has been disconnected from your car OBD-II port for a long time, your CarDroid will not turn on.

Solution:

Charge the battery before turning on the CarDroid. To charge the device leave it plugged into your car OBD-II port.

2. Your CarDroid does not send data via mobile network.

Reasons:

When you are in the area with a weak or no signal, you may lose reception. You may also have connectivity problems due to issues with the service provider's base station.

You cannot access some options without an appropriate mobile plan. For more information,

contact your service provider.

Solutions:

Check if the SIM card is installed correctly and if your SIM card charge is overdue.

Ensure that you are not blocking the CarDroid signal.

Move to another area and try again.

3. Your CarDroid does not connect or upload any data, or LED indicator blinks abnormally.

Reason:

Your CarDroid freezes or has fatal errors.

Solutions:

If your CarDroid freezes, you may need to restart your CarDroid to clear any temporary software errors.

To restart your CarDroid turn it off and on again (press and hold power button for about 5 seconds).

If this does not solve the problem, perform a factory data reset.

4. Calls do not get through.

Solutions:

Ensure that your CarDroid has accessed the right cellular network.

Ensure that you have not set call blocking for your devices.

5. Your device cannot find your current location or the location is incorrect.

Reason:

GPS signals may be obstructed in some locations (underground or heavily forested areas).

Solution:

You can connect an external GPS antenna to your CarDroid to amplify GPS signal. The GPS antenna can be purchased separately.

6. No data in your account and the device is offline.

Solutions:

Check APN (Access Point Name). Send SMS to the number of the inserted SIM card with the following text:

cardroid.apn={apn}:{user}:{password}

Enter the necessary data into the brackets { }.

Do not insert brackets { } in your SMS text.

Example:

cardroid.apn=mycar:JohnSmith:password1

Warnings

1. Keep the device dry. Any liquid, i.e. rain or moisture can damage it.
2. Do not store the CarDroid in sandy or dusty places.
3. Ensure that your CarDroid is not exposed to low and high temperatures while installing and running.
4. Handle carefully.
5. Clean the device with a piece of dry cloth. Don't clean it with chemicals or detergents.
6. Do not disassemble or try to open the device yourself. It will void your warranty.
7. Use the battery provided by the manufacturer.
8. Do not expose the battery to extreme temperatures. It may result in explosion.
9. Additional charges for data transfers may apply. Use an appropriate mobile data plan.

Trademarks

UonMap, the UonMap logo (including stylized U logo), and CarDroid are trademarks of UonMap International, Ltd.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc. worldwide.

Wi-Fi®, Wi-Fi Positioning, and the Wi-Fi logo are registered trademarks of the Wi-Fi Alliance.

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FCC Radiation Exposure Statement:

This equipment certified that complies with RF exposure requirement under mobile or portable condition, this equipment is to be installed only in mobile or portable applications.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body when installed in mobile application.

To be installed in portable application, it has also been tested against the SAR limit, the SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. SAR information on this and other pad can be viewed on - line at <http://www.fcc.gov/oet/ea/fccid/>. Please use the equipment FCC ID number for search. This equipment was tested for typical body-worn operations kept 5mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 5mm separation distance between the user's body and the equipment. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

FCC Warning

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

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.