

## Uninstall an app using adb

To remove the app use `adb remove org.myorg.appname`

```
1 $ adb remove org.myorg.appname
2 Success
```

## Installing QGC

## Installing SDK Platform-Tools

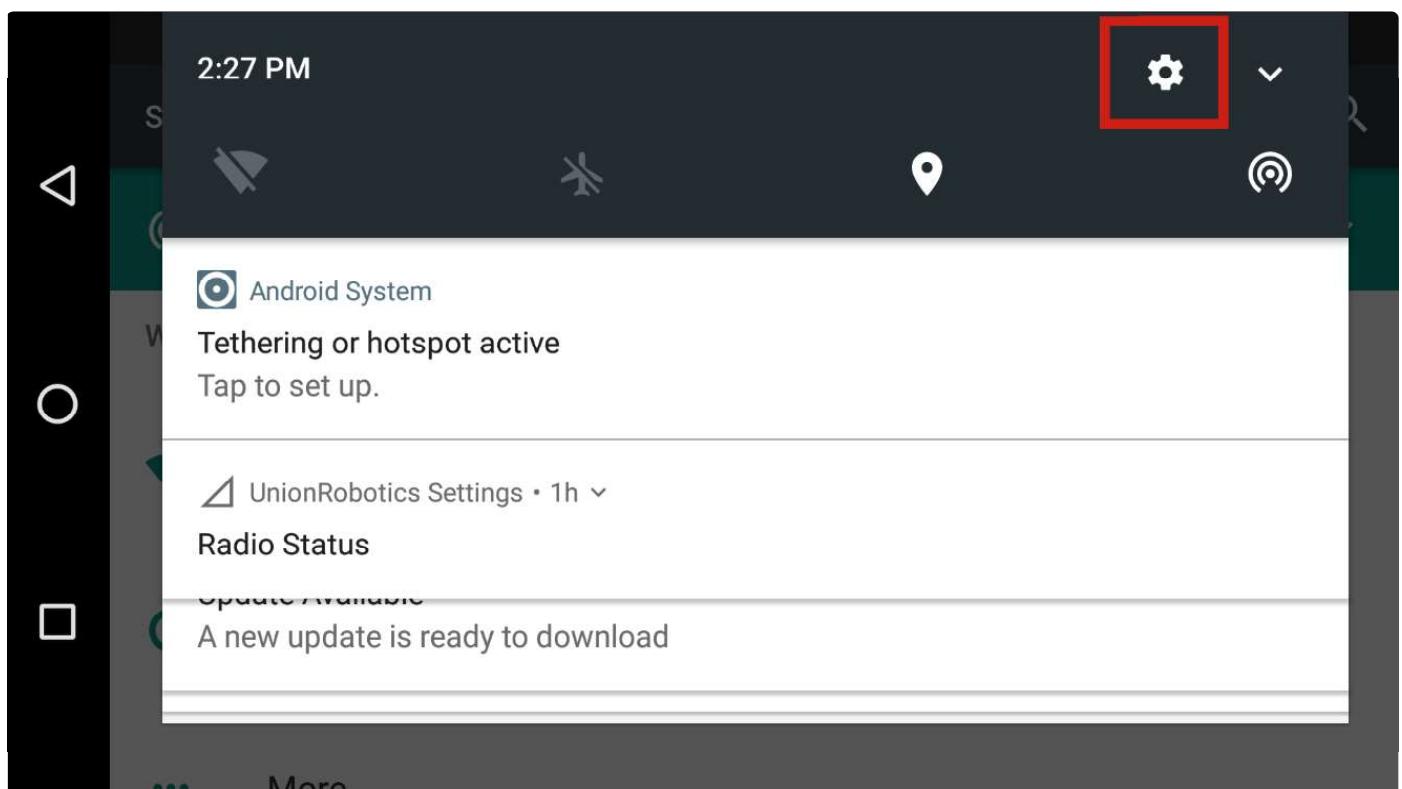
Ensure you have latest [platform-tools](#) installed on your computer system.

If you do not have the SDK "platform-tools" installed on your computer, download it from this link and keep track where the "platform-tools" folder is located:

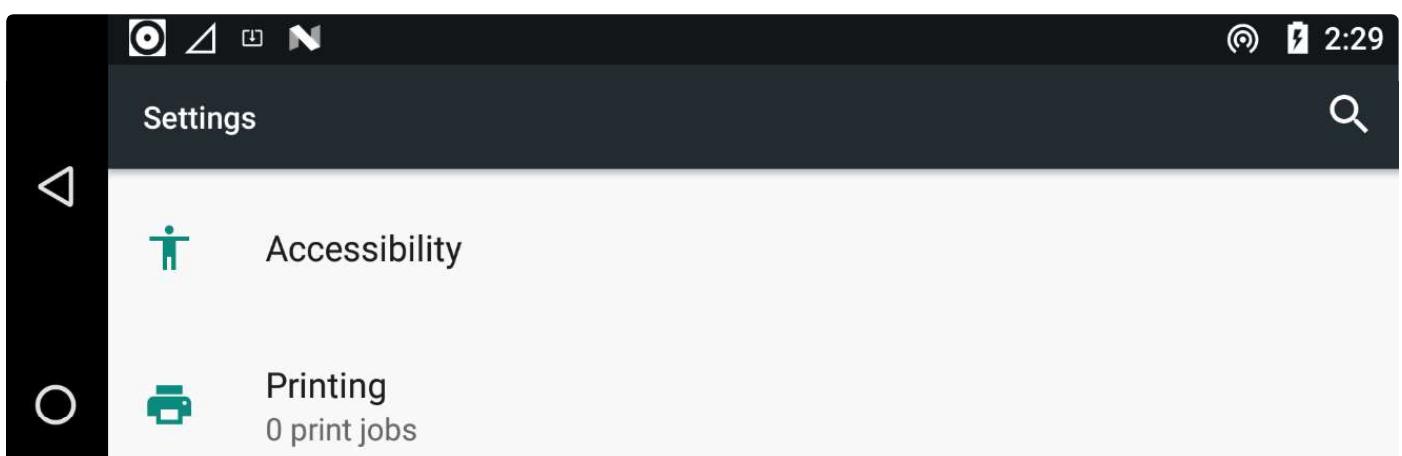
SDK Platform Tools release notes | Android Developers  
Android Developers

## Connect the HereLink Blue to a computer

Enable "Developer Mode" on the HereLink Blue by navigating to `Settings -> About Phone -> Build Number` and tap at least 7 times on "Build Number."



Swipe down on the screen and click the "gear" icon for settings



{ } Developer options

 About phone

Android 7.1.2

Click "About Phone" in the settings window

 Phone status

ARU01210119

Baseband version

BUMBLEBEE.R03.T27-99f2a4f13-528dd60

Kernel version

4.9.27-264388-g3bba04f2fa30

soon@Soon6401 #3

Wed Sep 2 09:51:26 CST 2020

 Build number

N2G47J test-keys

Click on the Build Number at least 7 times until the "Developer Mode" screen message is displayed

Enable Settings -> Developer options -> USB debugging

 Settings

 Accessibility

 Printing

0 print jobs

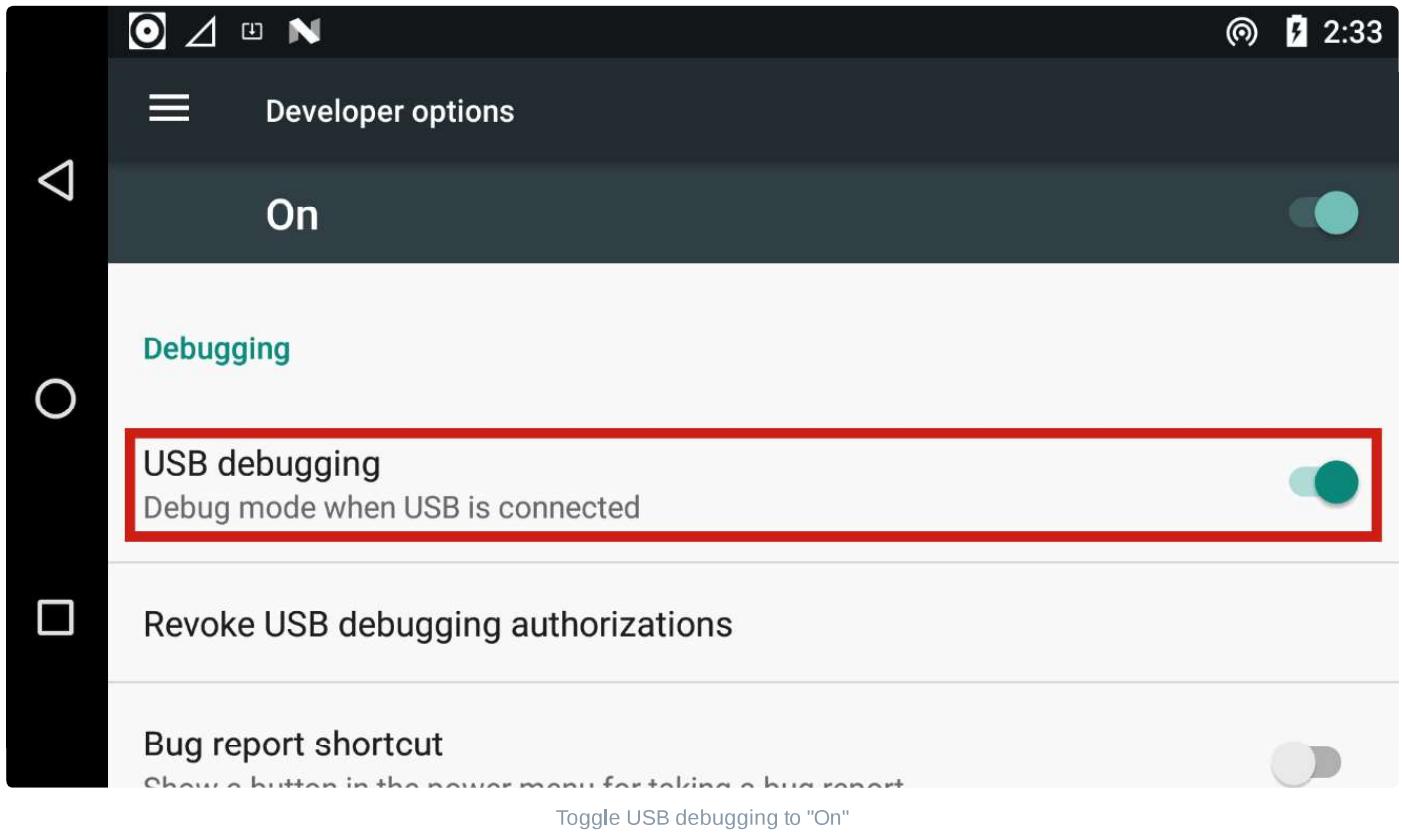
{ } Developer options



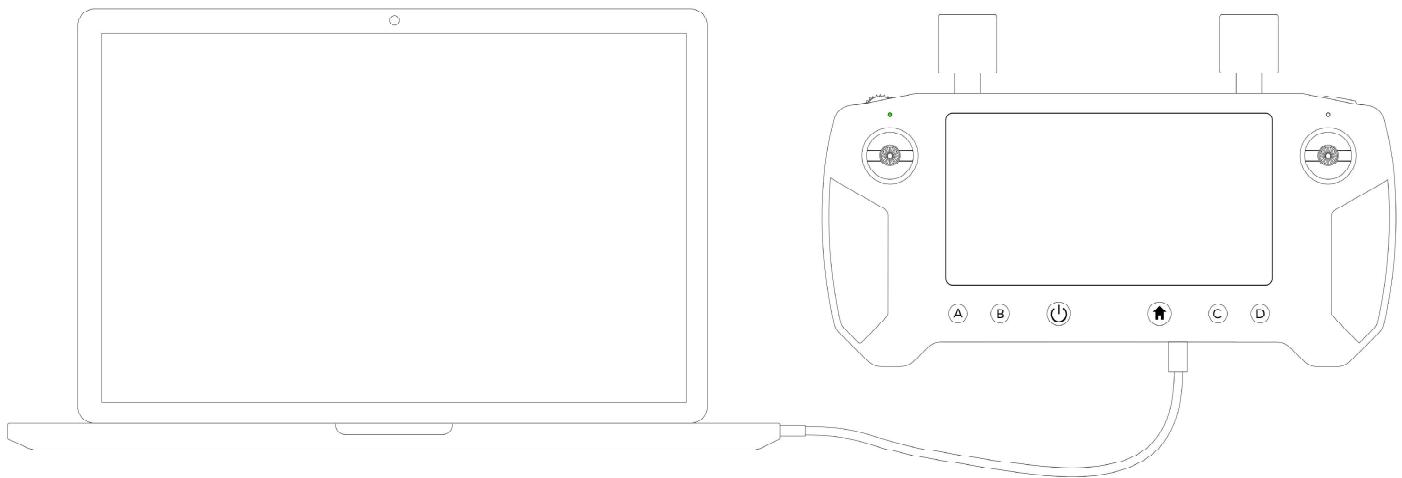
## About phone

Android 7.1.2

Click "Developer Options" in settings

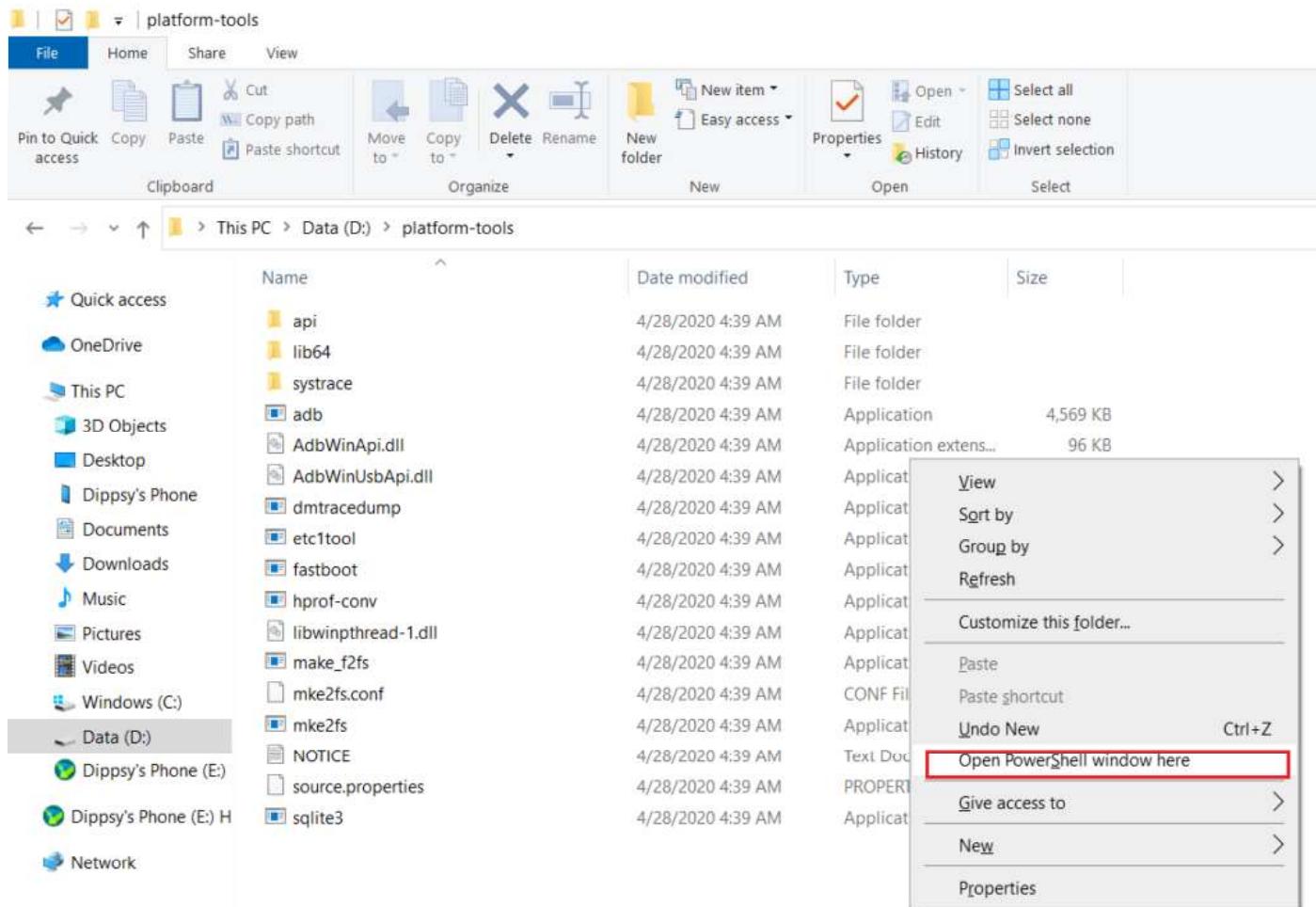


Using a USB to Micro USB cable, plug the DataLink into a computer and open the computer's terminal command line



## Open the Terminal

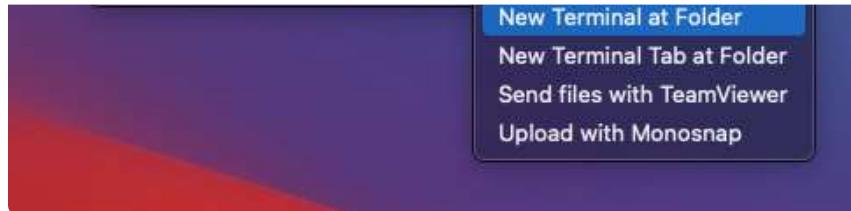
For Windows, navigate to the "platform-tools" folder. In this folder, hold **down Shift and then right-click**. From the menu select the **"Open Command window here"** option. If the option to open the command window is not available, then click on the "open PowerShell window here".



Windows

For Mac, navigate to the "platform-tools" folder. **Right Click** the folder and select **Services -> New Terminal at Folder**





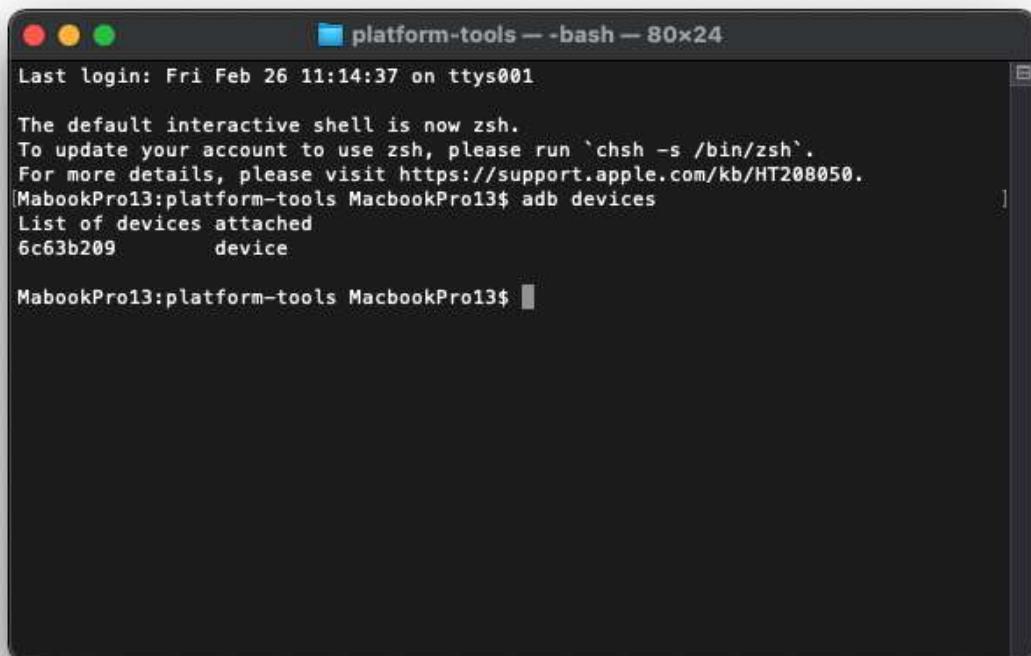
Mac

## Check if the unit is connected

Using the computer's terminal, check if the device is connected via the adb command protocol:

Mac:

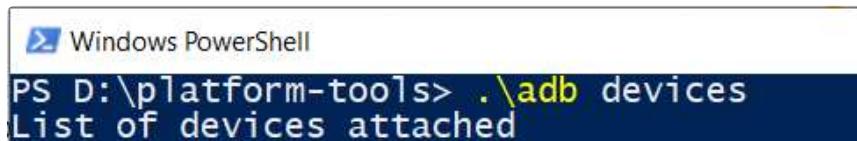
```
1 adb devices
2
```



Mac

Windows:

```
1 .\adb devices
2
```



```
RFS3Y18827021859          device
PS D:\platform-tools>
```

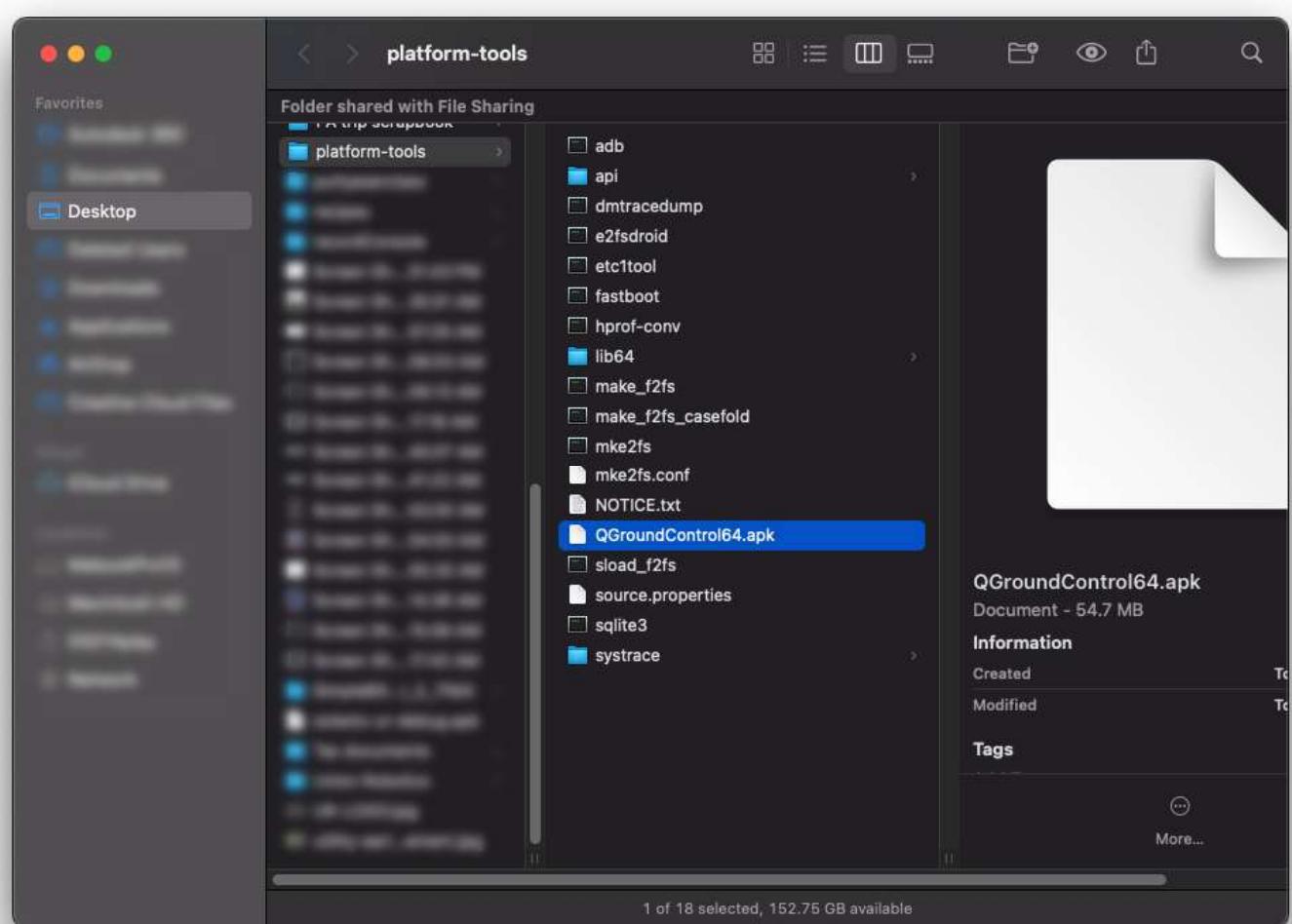
Windows

## Download QGC APK

Click the link below to download the Android 64 bit QGC .apk to your computer:

<https://qgroundcontrol.s3-us-west-2.amazonaws.com/latest/QGroundControl64.apk>

Move the .apk file to the SDK "platform-tools" folder on your computer

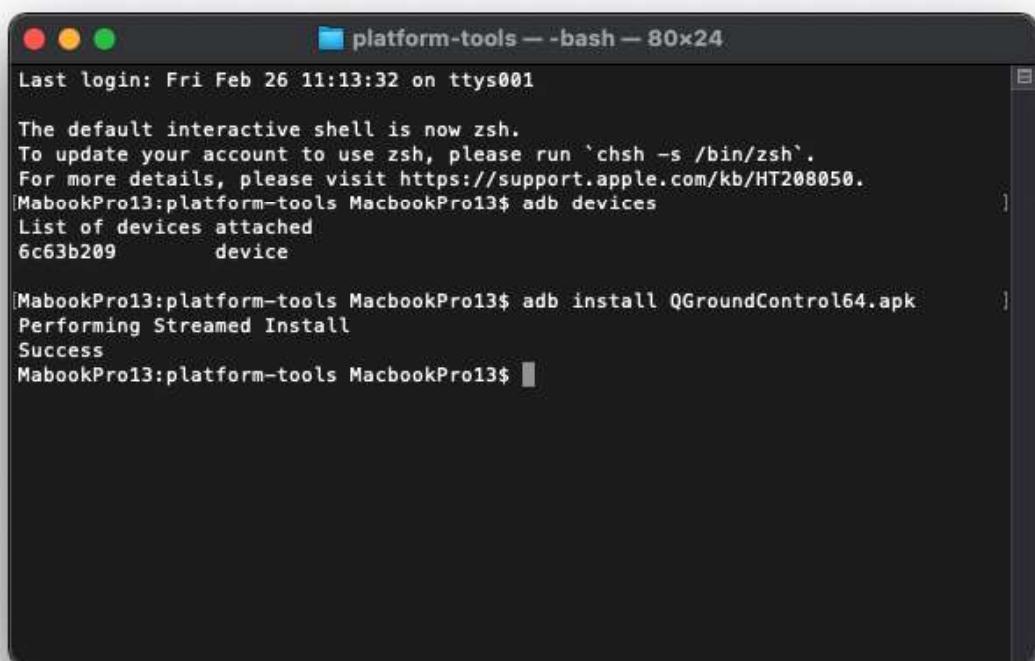


## Installing QGC to the DataLink

Install QGroundControl using `adb install QGroundControl64.apk` in your computers terminal

Mac:

```
1 adb install QGroundControl64.apk
2
```



A screenshot of a Mac OS X terminal window titled "platform-tools -- bash -- 80x24". The window shows the following command-line session:

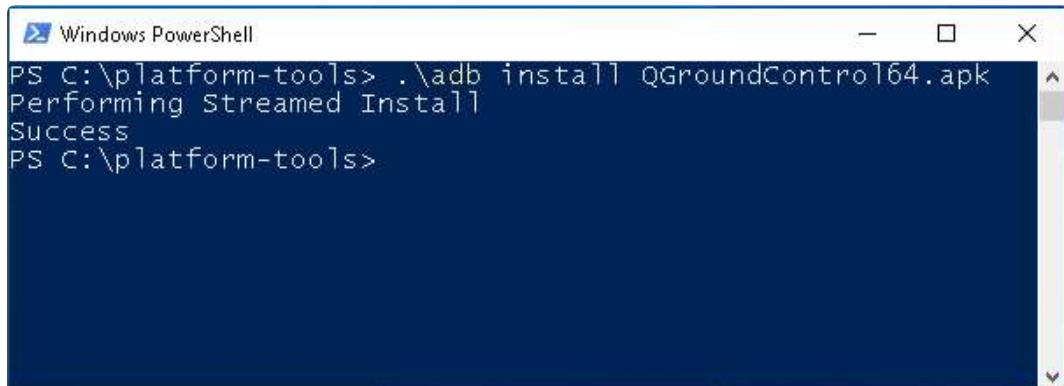
```
Last login: Fri Feb 26 11:13:32 on ttys001
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[MabookPro13:platform-tools MacbookPro13$ adb devices
List of devices attached
6c63b209      device

[MabookPro13:platform-tools MacbookPro13$ adb install QGroundControl64.apk
Performing Streamed Install
Success
MabookPro13:platform-tools MacbookPro13$ ]
```

Mac adb install

Windows:

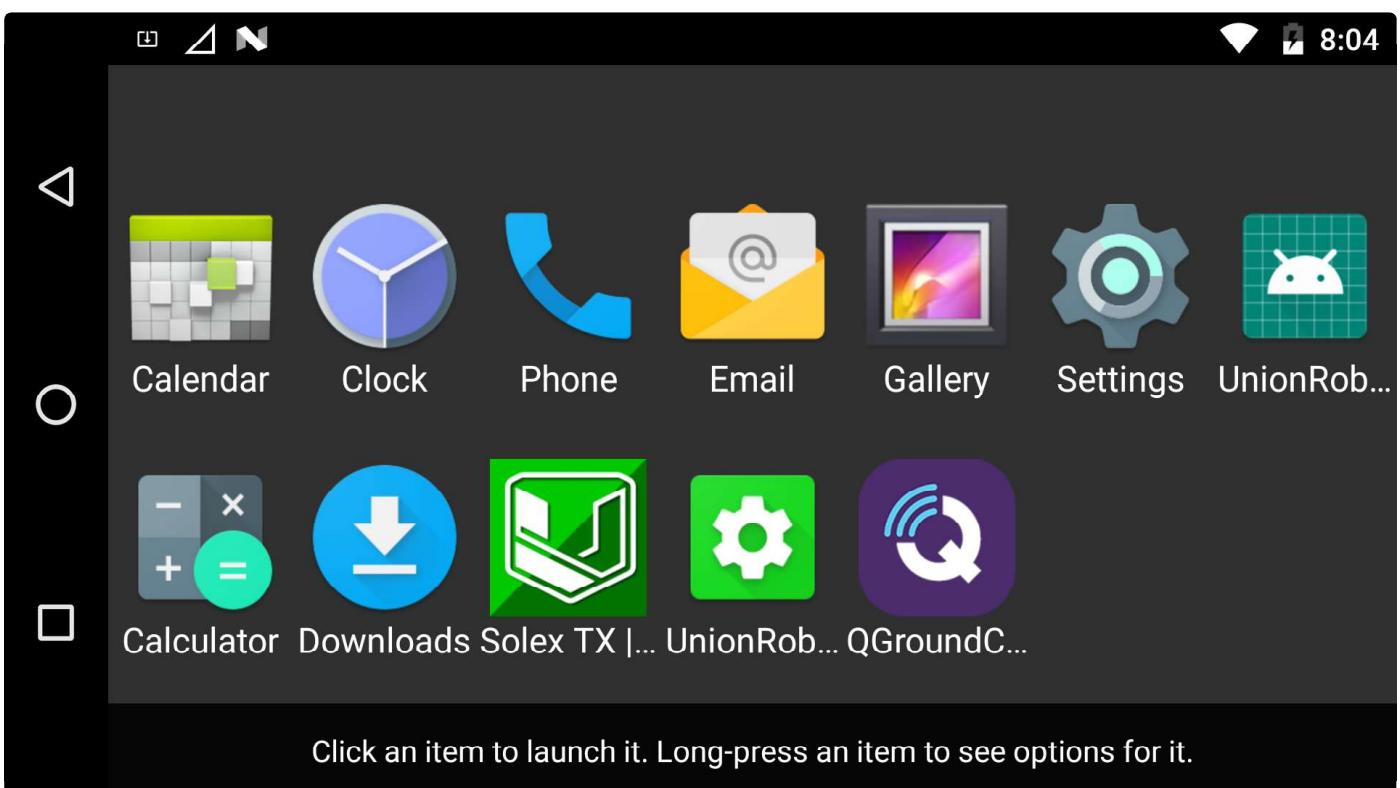
```
1 .\adb install QGroundControl64.apk
2
```



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following command-line session:

```
PS C:\platform-tools> .\adb install QGroundControl64.apk
Performing Streamed Install
Success
PS C:\platform-tools>
```

QGC should now appear in the app launcher's list.



## Important Notes & Warnings

- Rover Unit power input: 5V - 12.6V max (3s Lipo supported). Any power range above 12.6V will burn the device.
- The temperature will rise when the Rover Unit is connected with the Ground Station. The temperature of the Rover Unit can be checked on the Ground Station side, and should be lower than 70°C. If the temperature is over 70°C with normal use, installing an active cooling fan is recommended.
- Never power the Rover Unit without the antennas plugged in. Powering on the Rover Unit without the antennas plugged in will result in overheating.

**Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

**This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following conditions:**

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

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

**If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interface 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.

#### **FCC & IC Radiation Exposure Statement:**

This equipment complies with the FCC and Canada radiation exposure limits set forth for an uncontrolled

environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

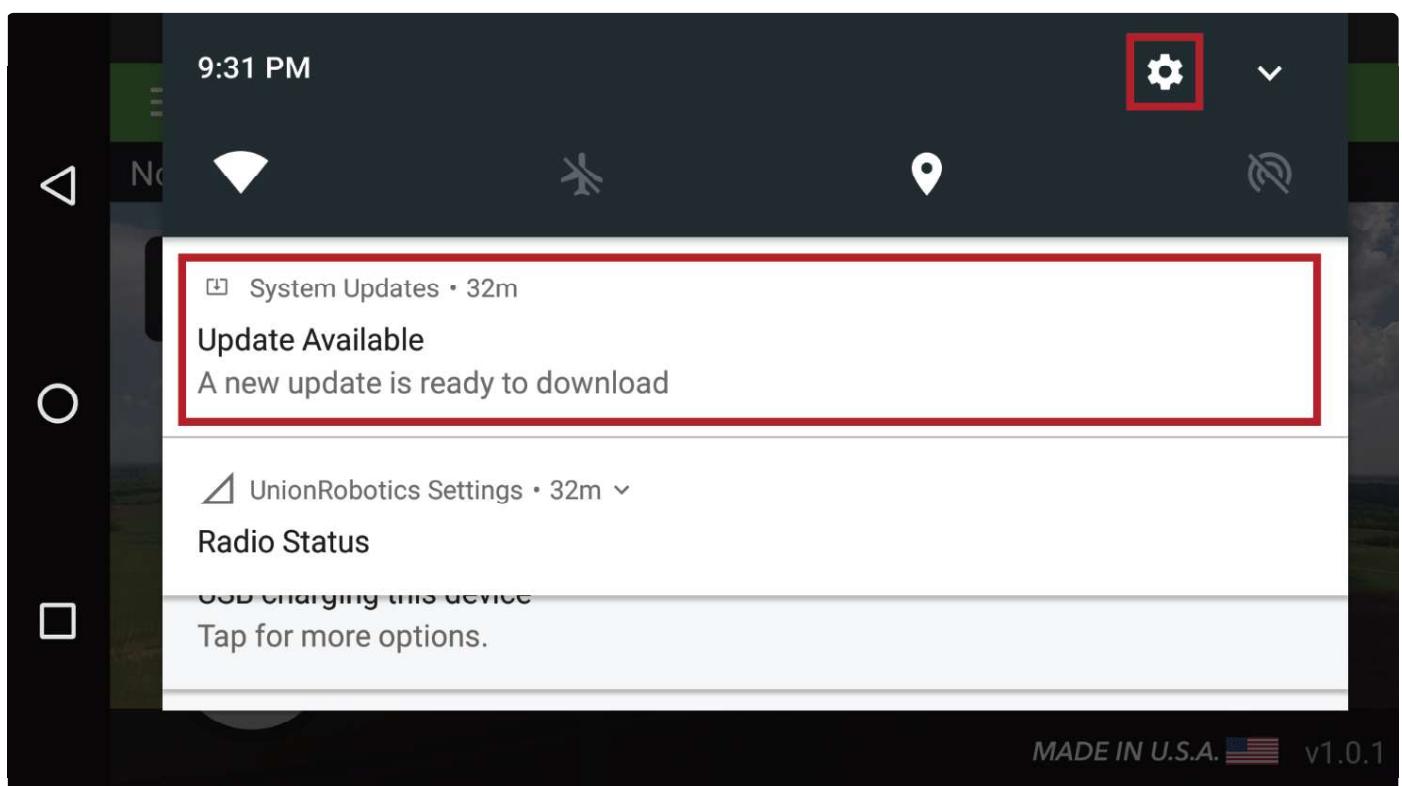
**For Air Unit:** The equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

## Update Firmware

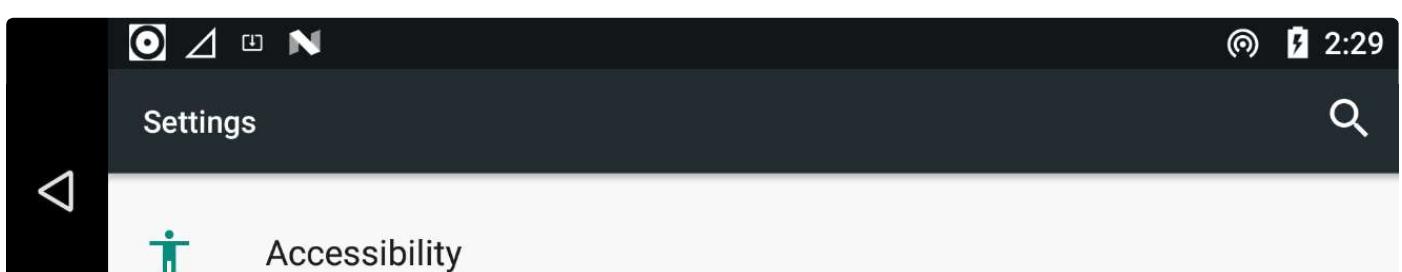
### Update Ground Station

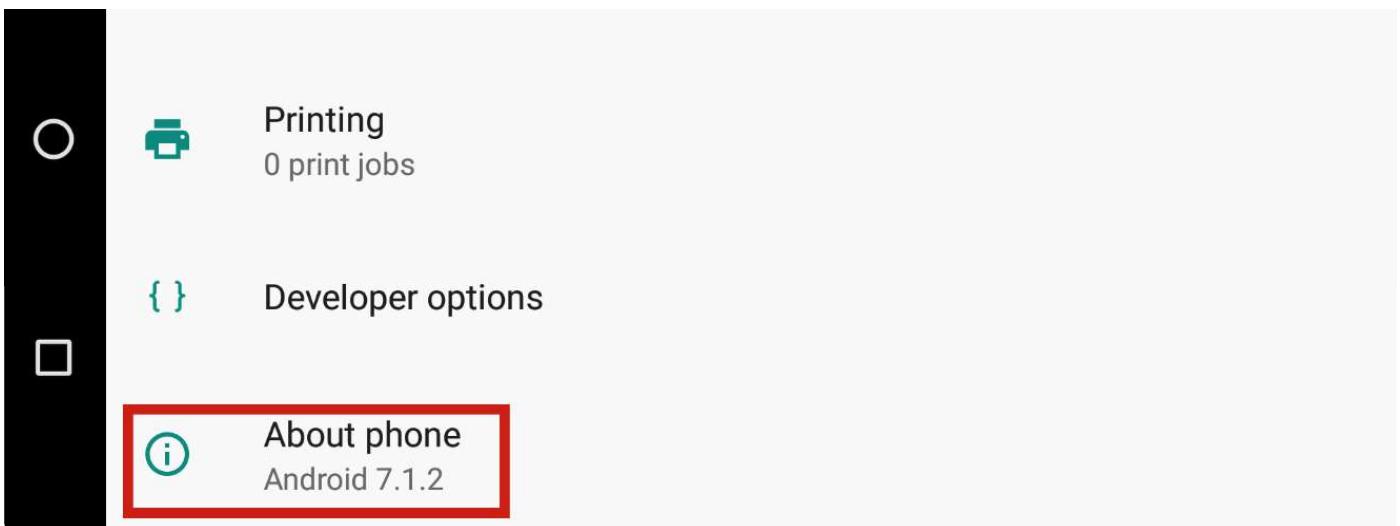
Connect your DataLink to a 5.8GHz WIFI and make sure an internet connection is available

Pull down from the top and select the settings cog in the top corner or click the `Update Available` tab

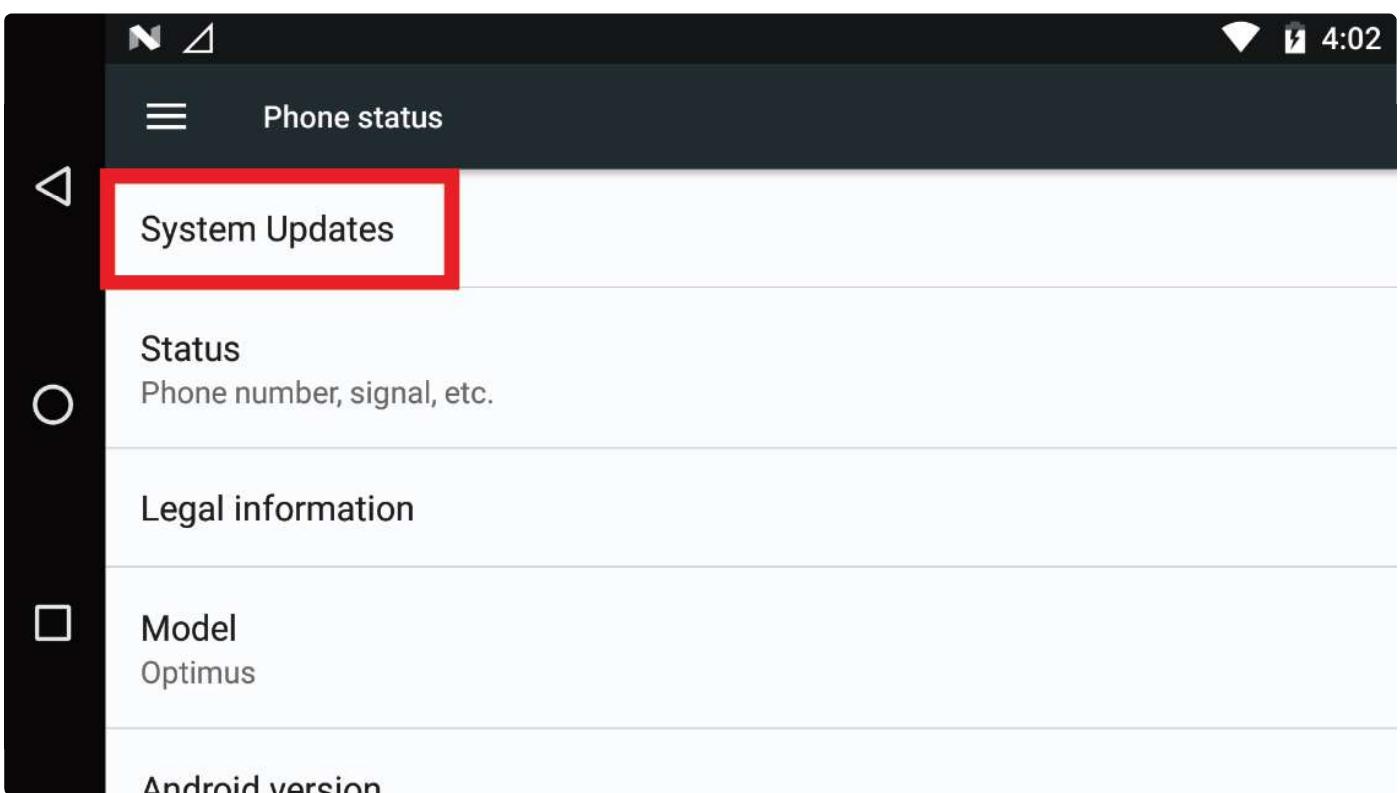


Scroll to the bottom and click the `About Phone` option

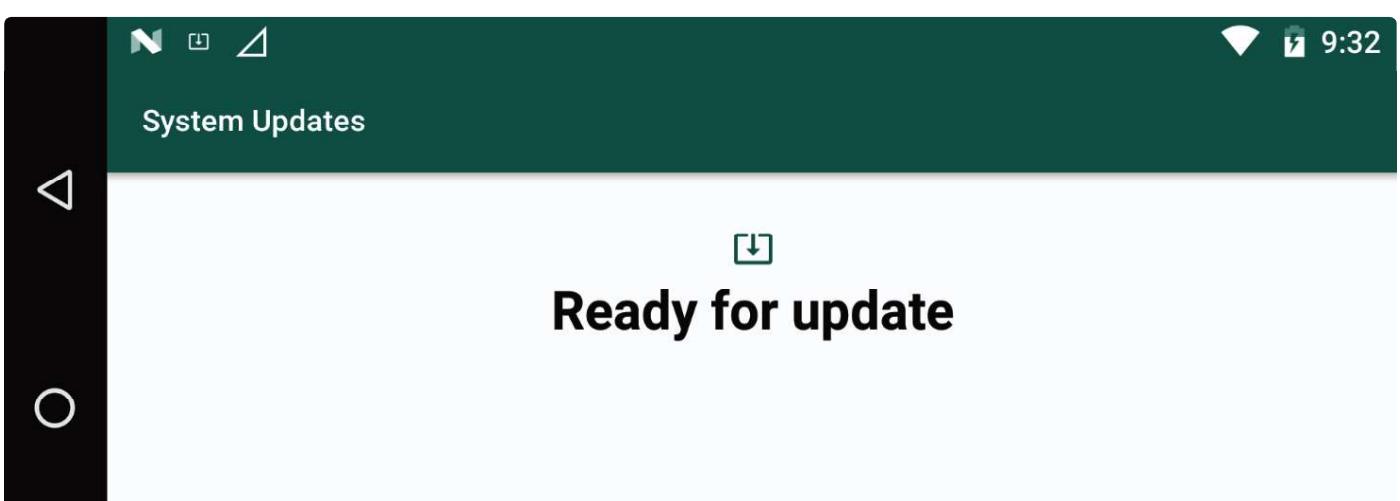




Select System Update



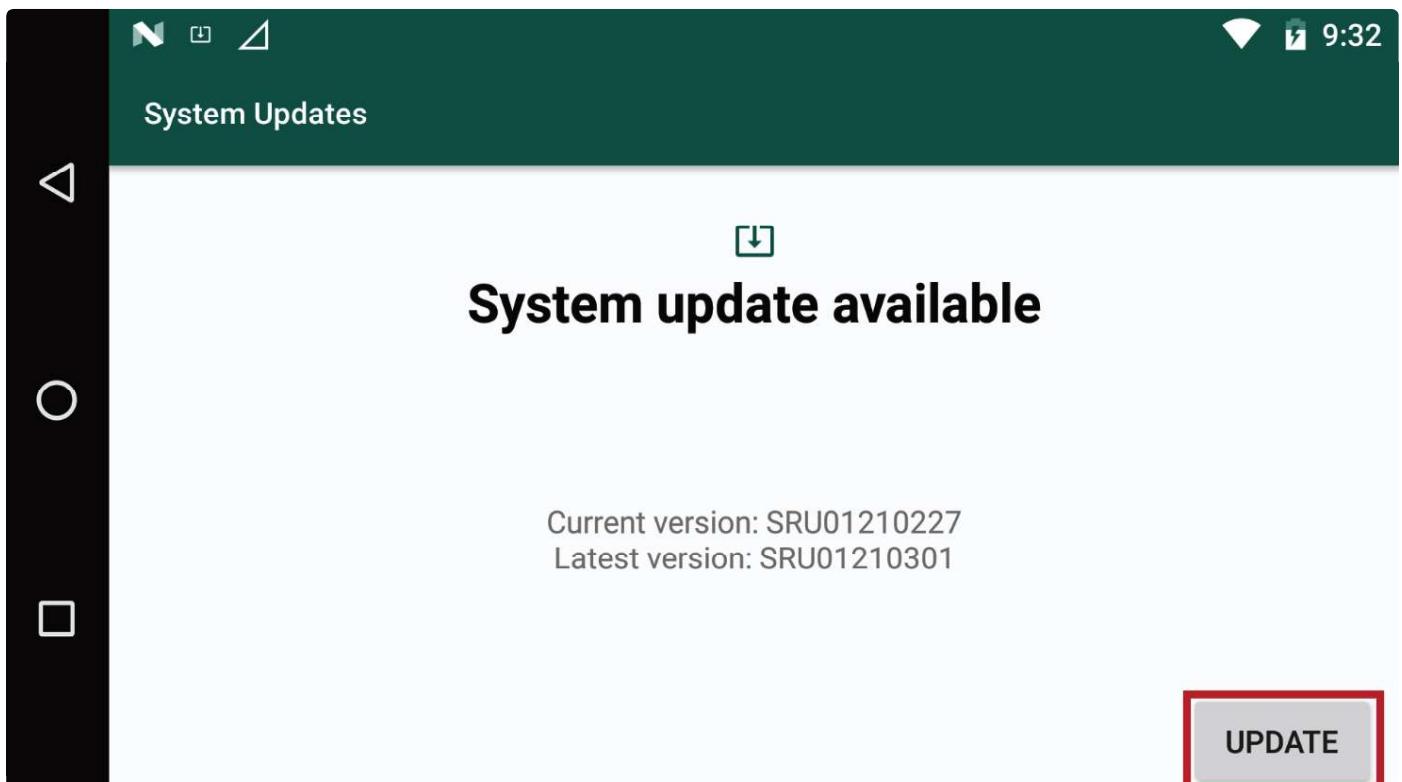
Select CHECK FOR UPDATE in the bottom corner



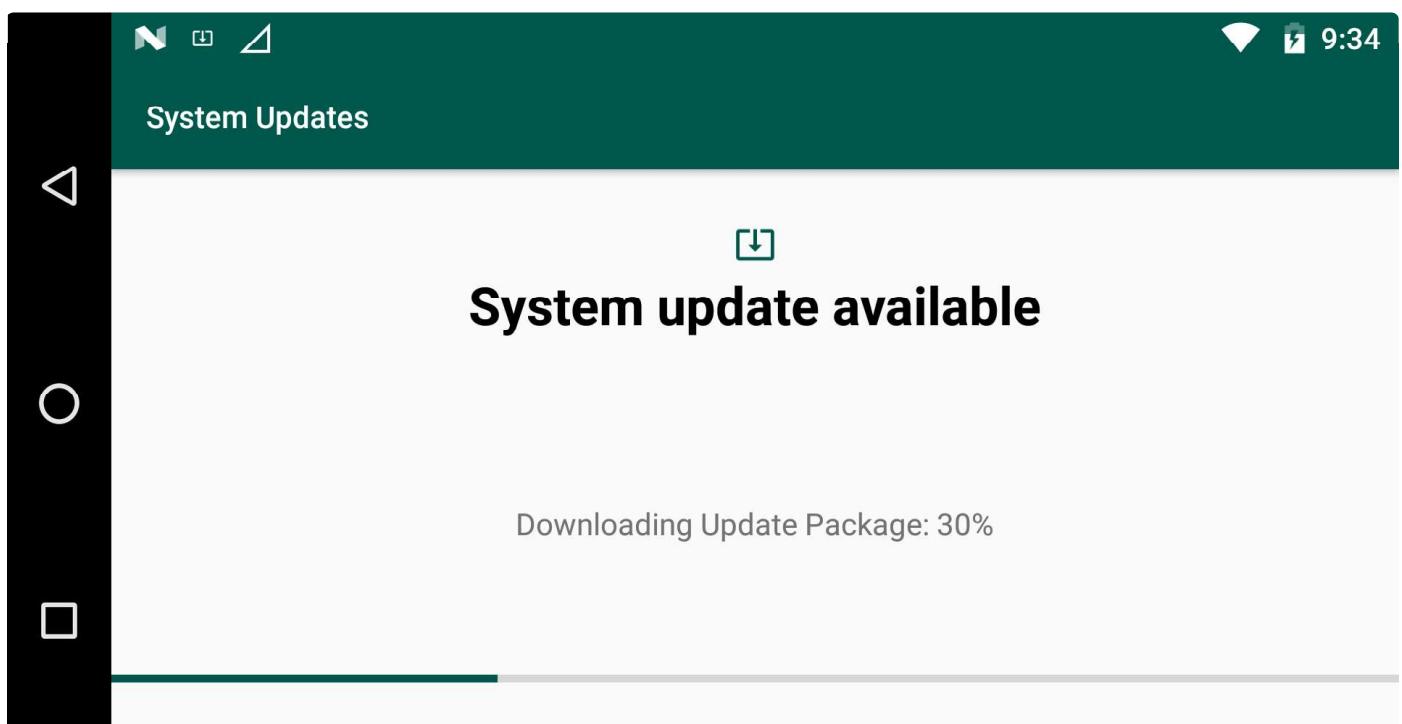
Current version: SRU01210227

**CHECK FOR UPDATE**

Select UPDATE in the bottom corner



The system will update and install



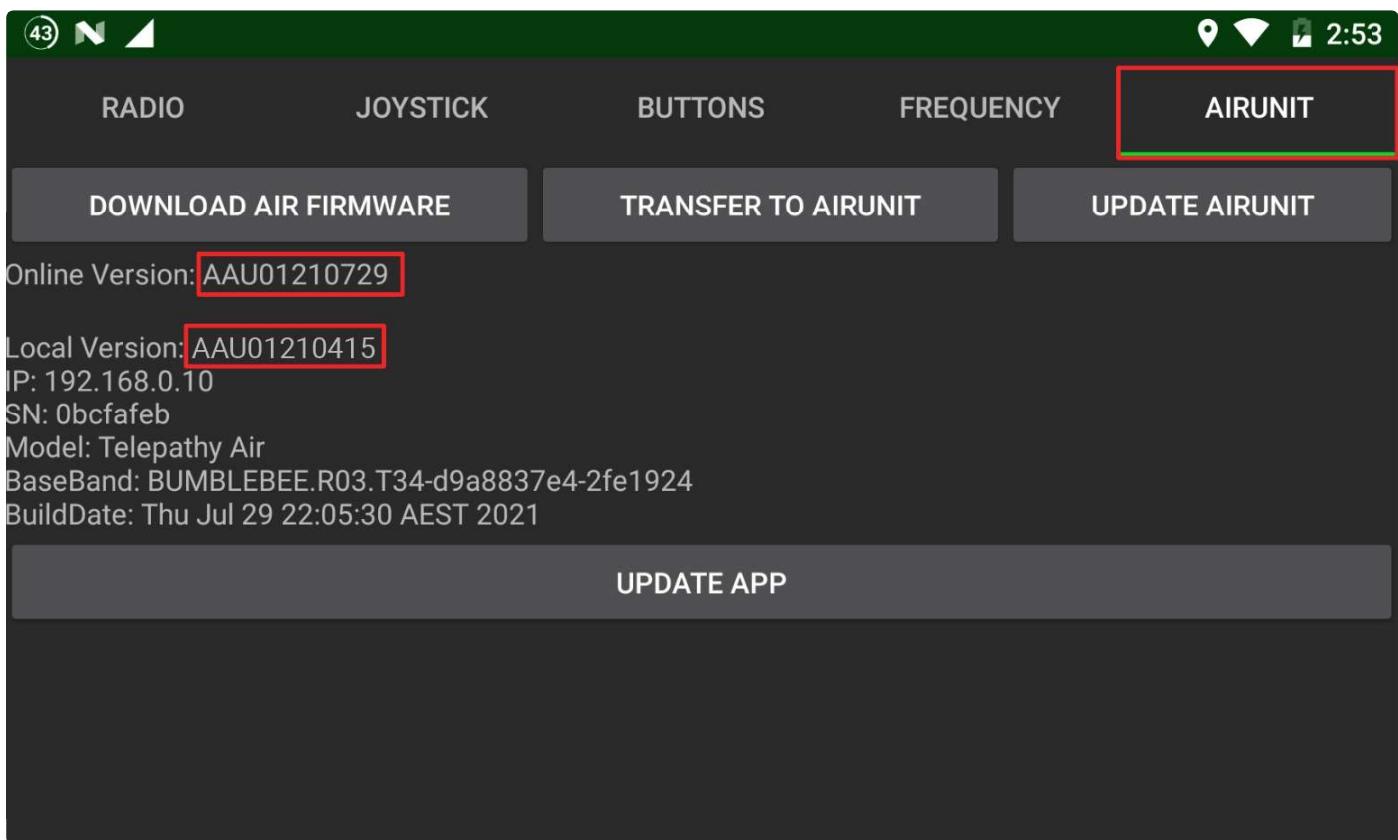
## Update Error

There are 3 things the need to be checked if you receive an error

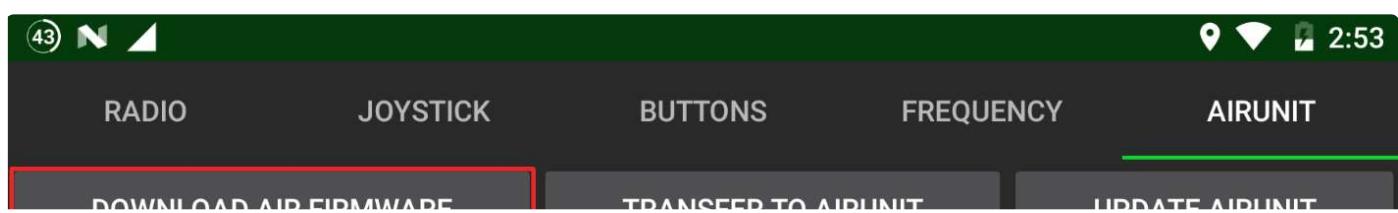
1. You are connected to stable WIFI
2. The device time/date is correct
3. You entered the correct Key

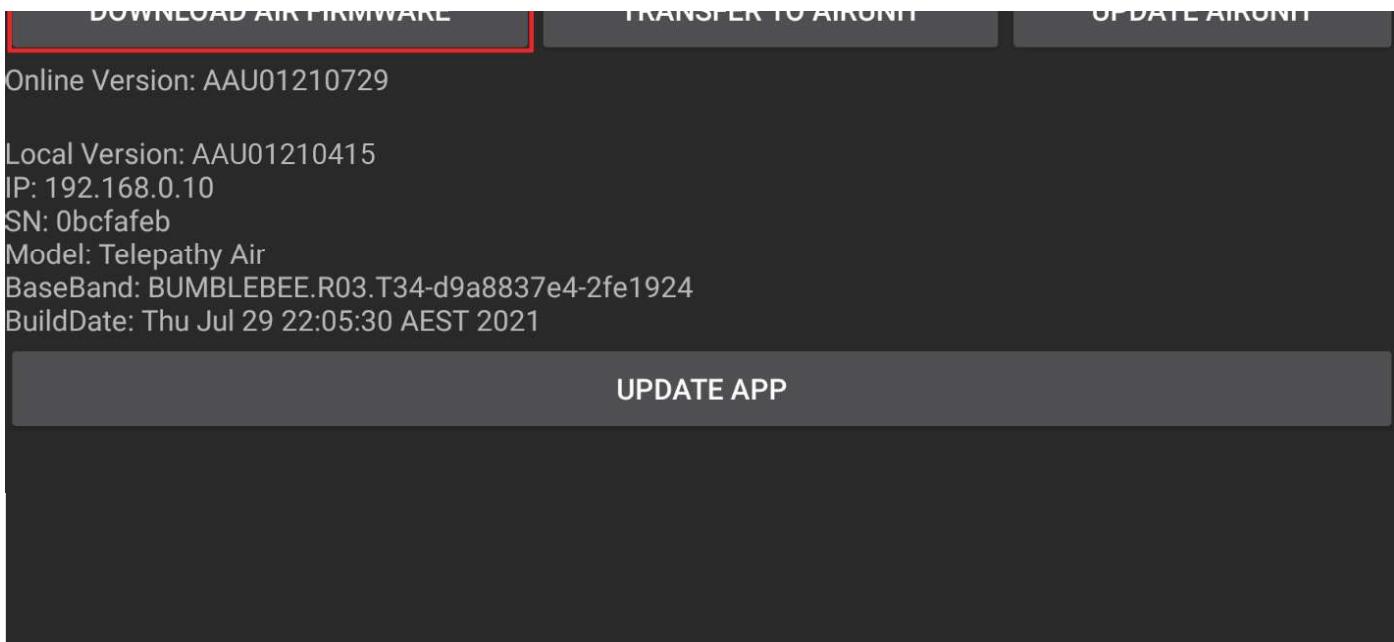
## Update Air Unit

In the `Radio Settings` menu, select `AIRUNIT` tab. The app will download the settings from the air unit and search online to see if there is an update available.

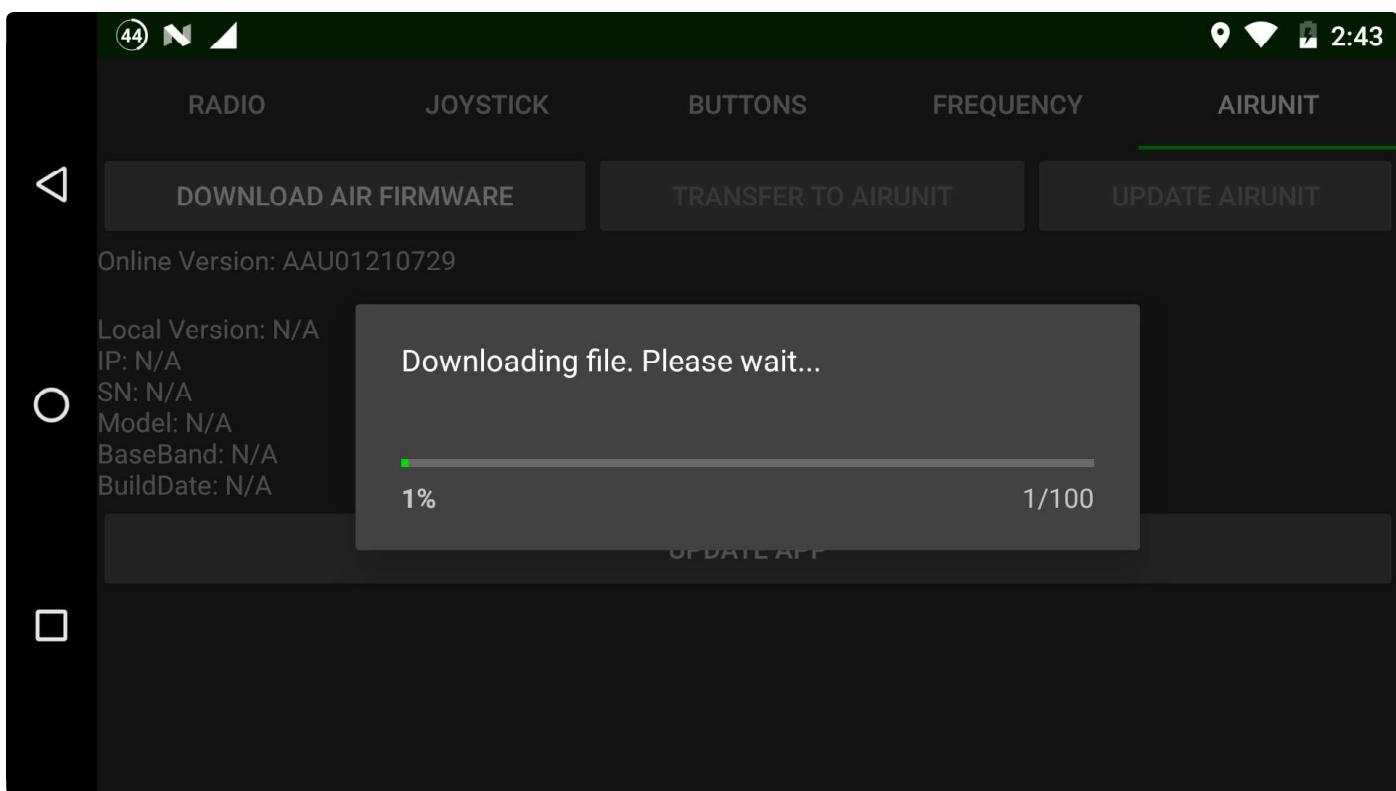


Select `DOWNLOAD AIR FIRMWARE` tab.

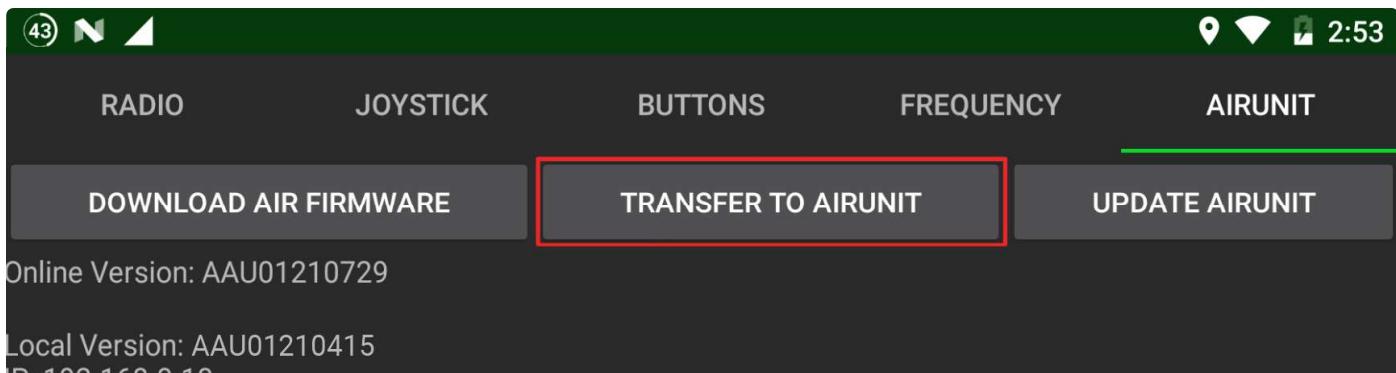




The Air Unit Firmware will start downloading to the Ground Station.



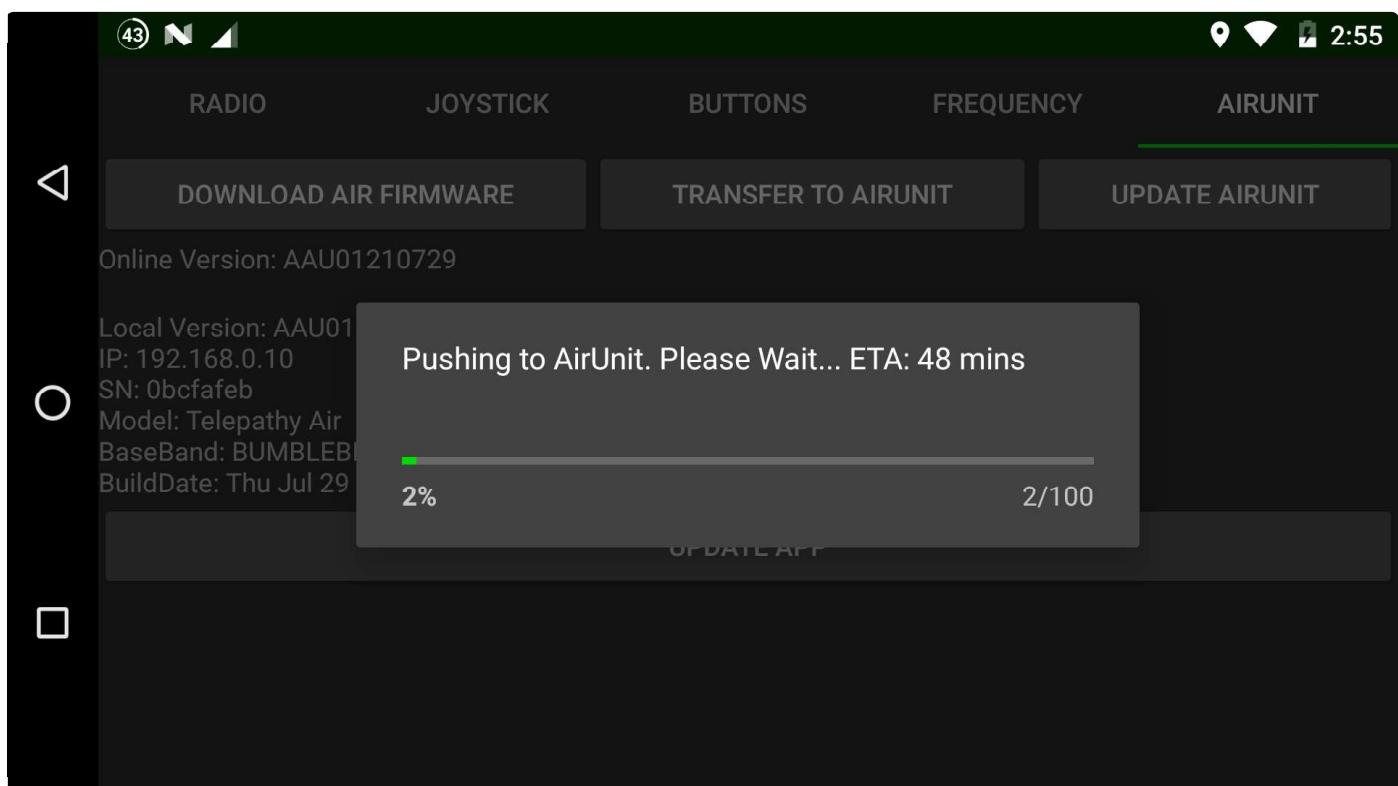
Once downloading is complete, select the TRANSFER TO AIRUNIT tab.



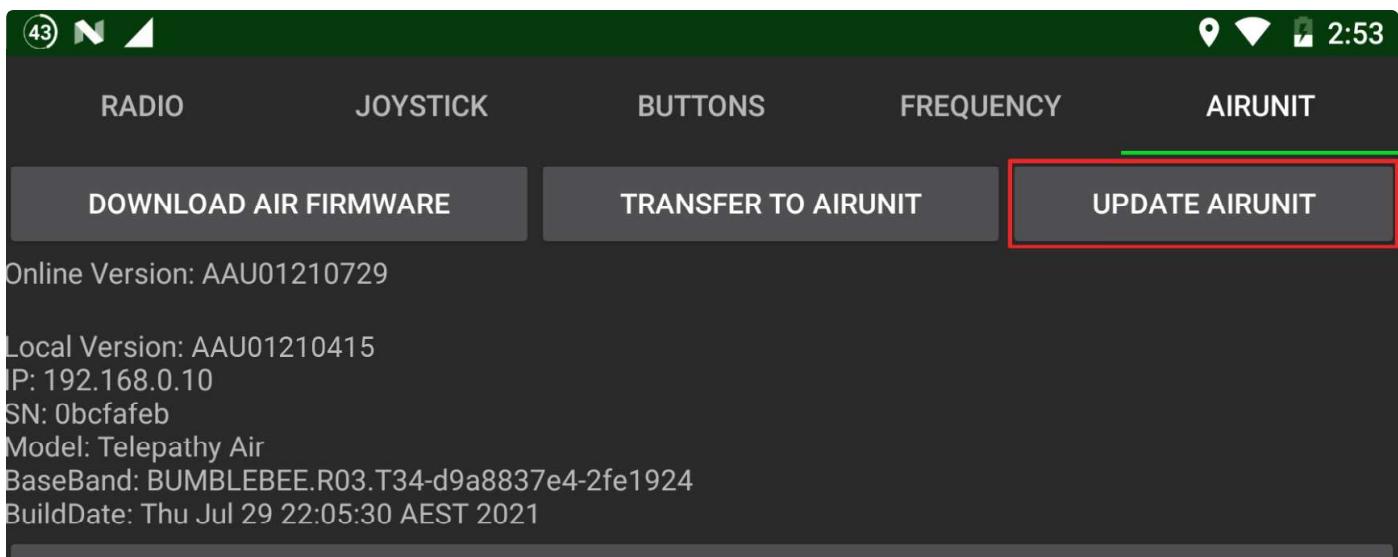
IP: 192.168.0.10  
SN: 0bcfafeb  
Model: Telepathy Air  
BaseBand: BUMBLEBEE.R03.T34-d9a8837e4-2fe1924  
BuildDate: Thu Jul 29 22:05:30 AEST 2021

UPDATE APP

The downloaded firmware will start to transfer to the Air Unit.

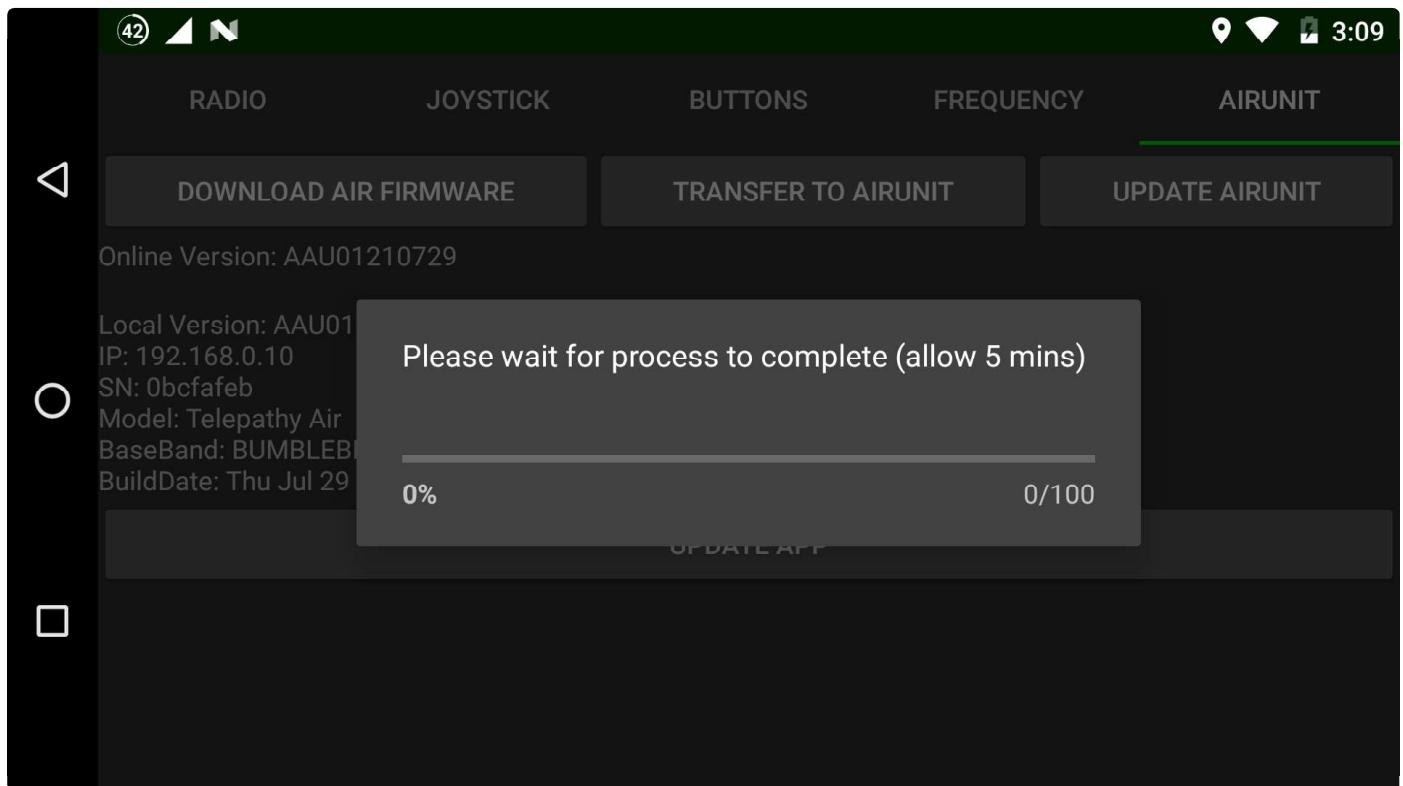


Once the transfer is complete, select the **UPDATE AIRUNIT** tab.

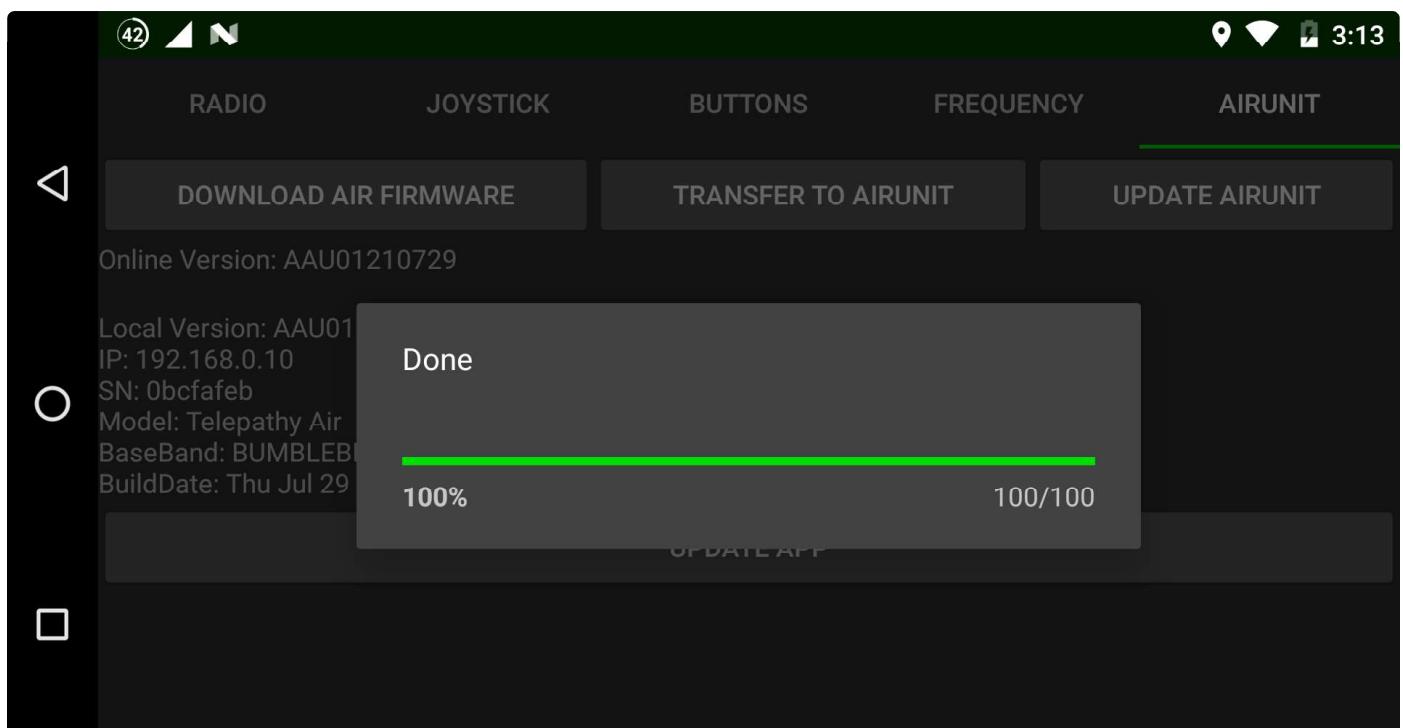


## UPDATE APP

The new Air Unit firmware will be installed on the Air Unit.



Once complete, click anywhere on the screen outside the grey box to continue.



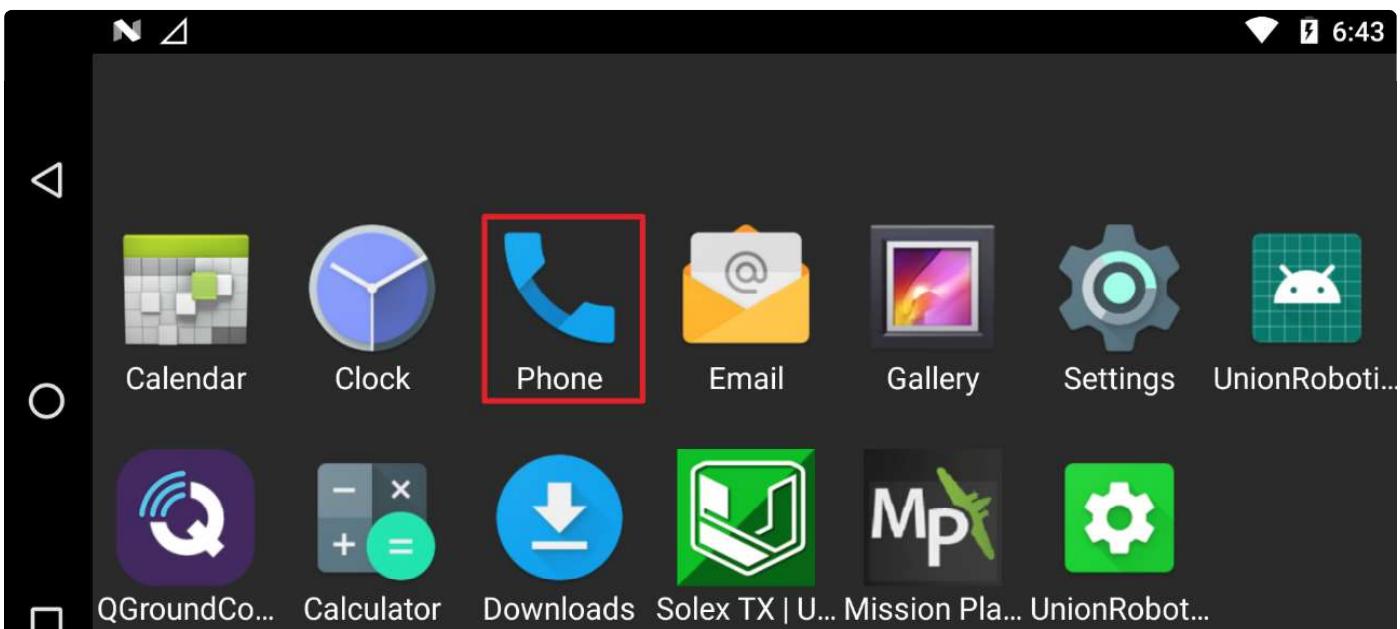
## Bug Report

### Create a Bug Report from the Ground Station

Navigate to the home screen on the Ground Station and click the `App` icon in the lower right hand side of the screen.

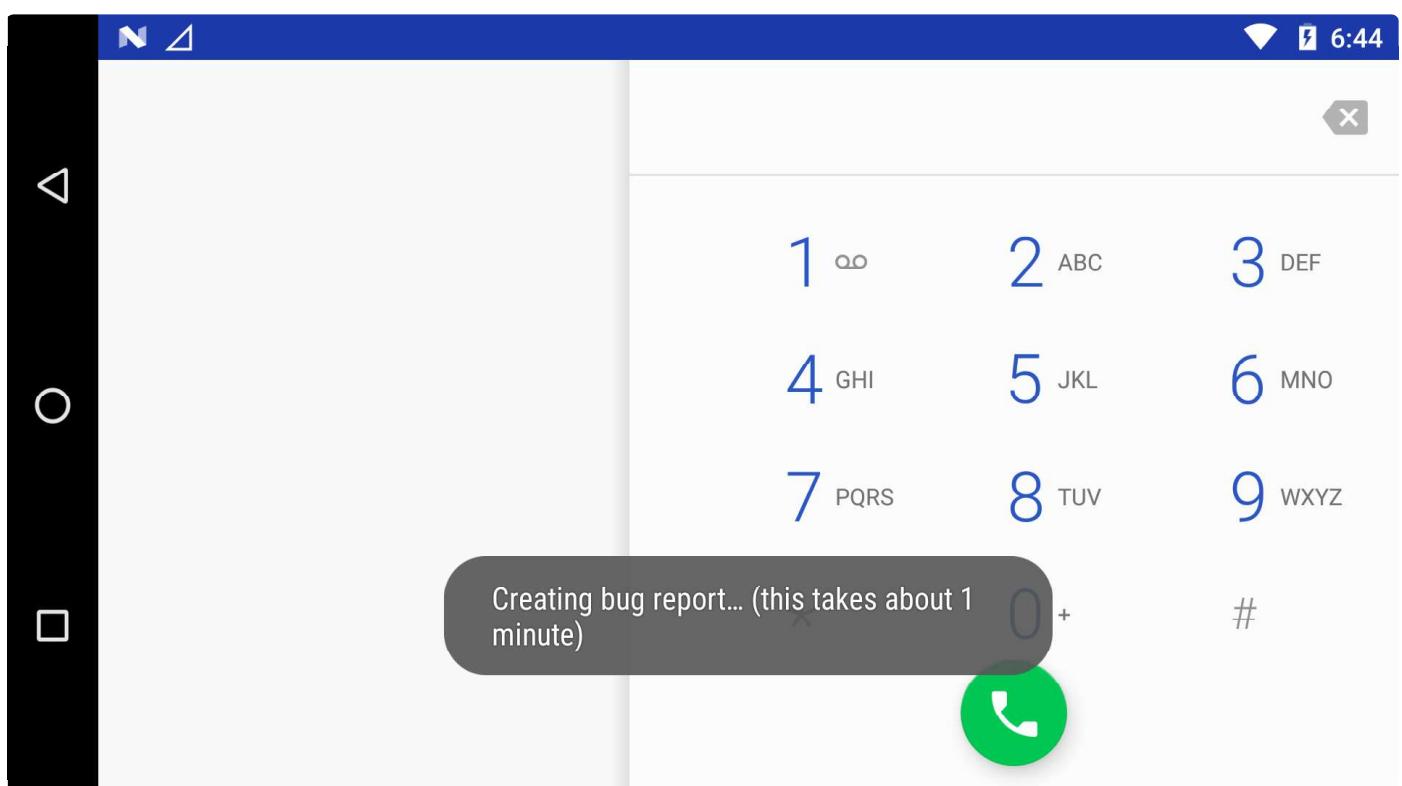
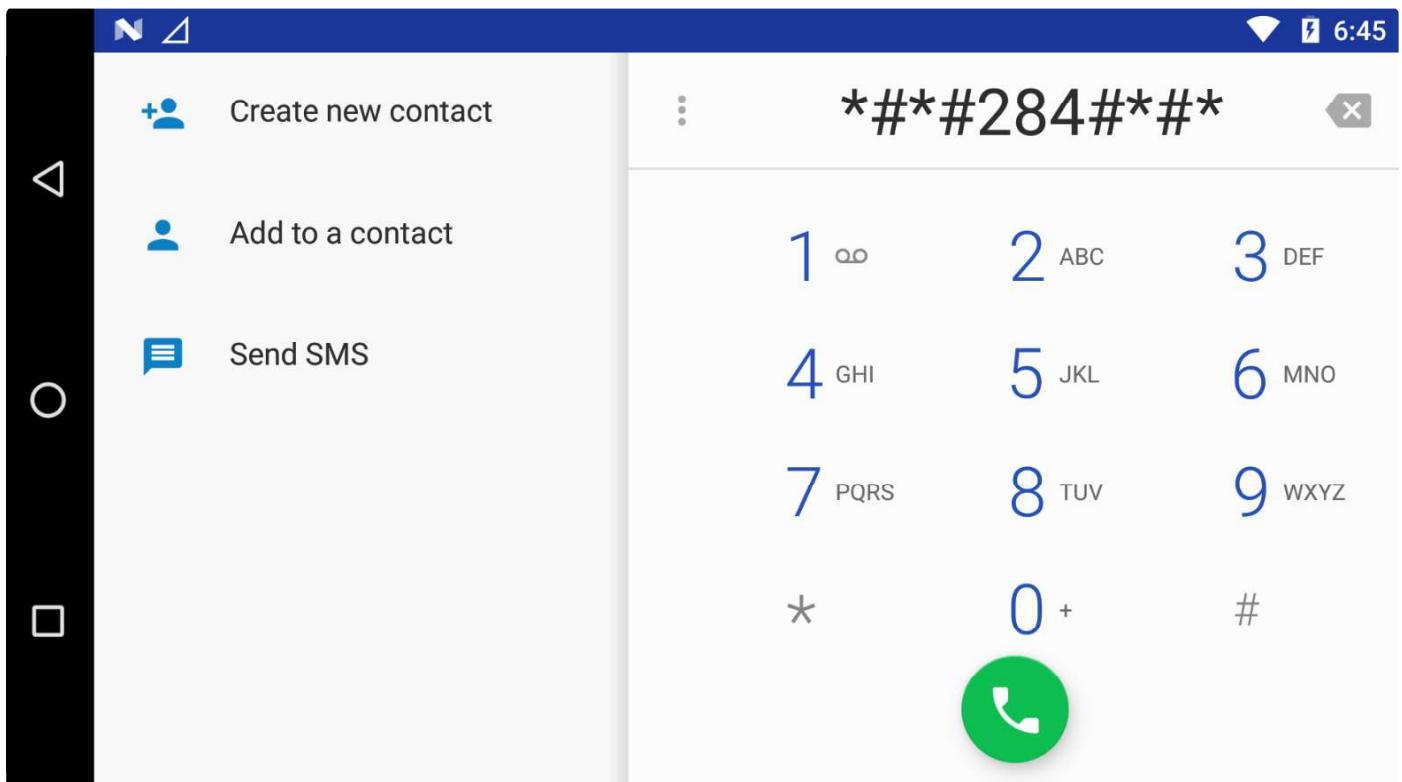


Click the `Phone` app.



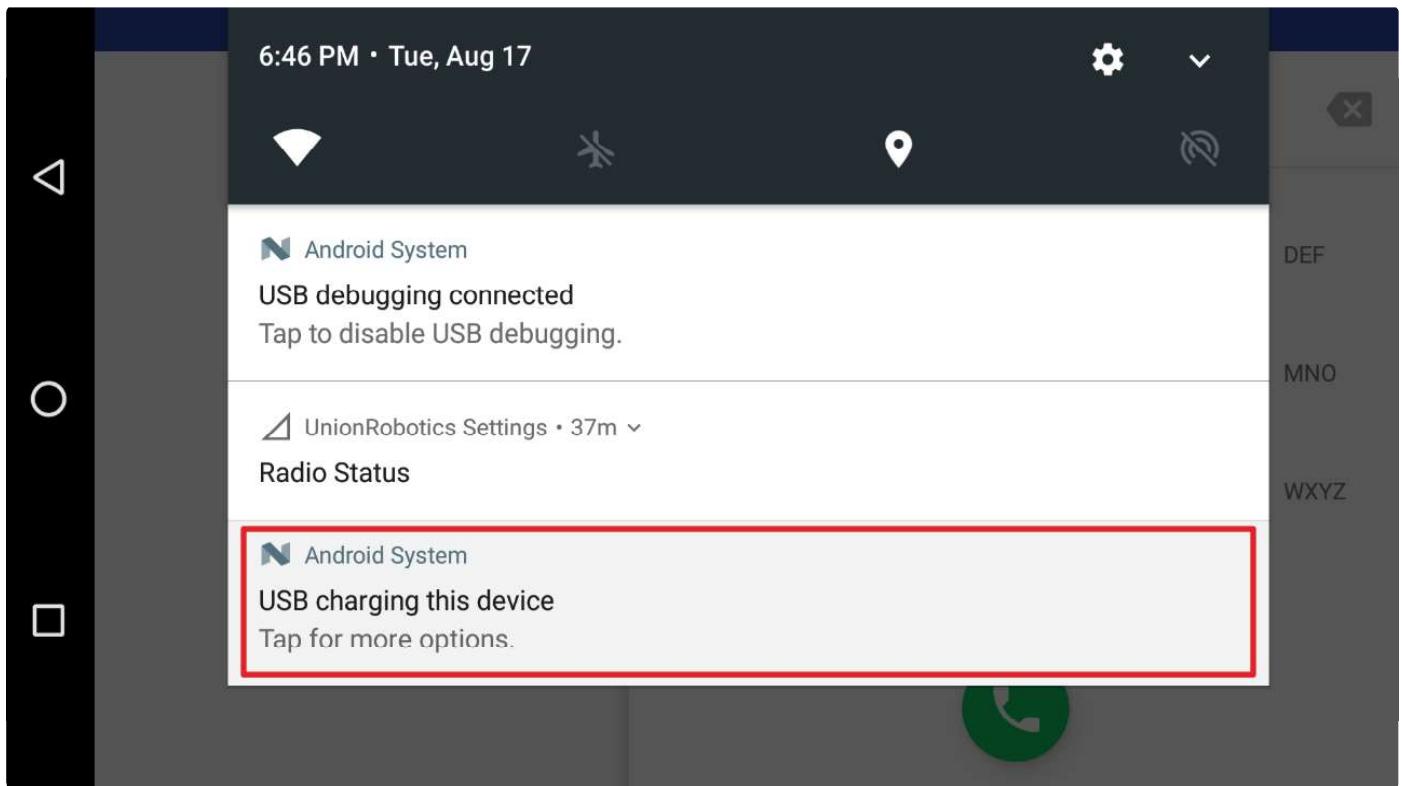
Click an item to launch it. Long-press an item to see options for it.

Dial \*#\*#284#\*#\* , when complete, the system will automatically start generating a bug report.

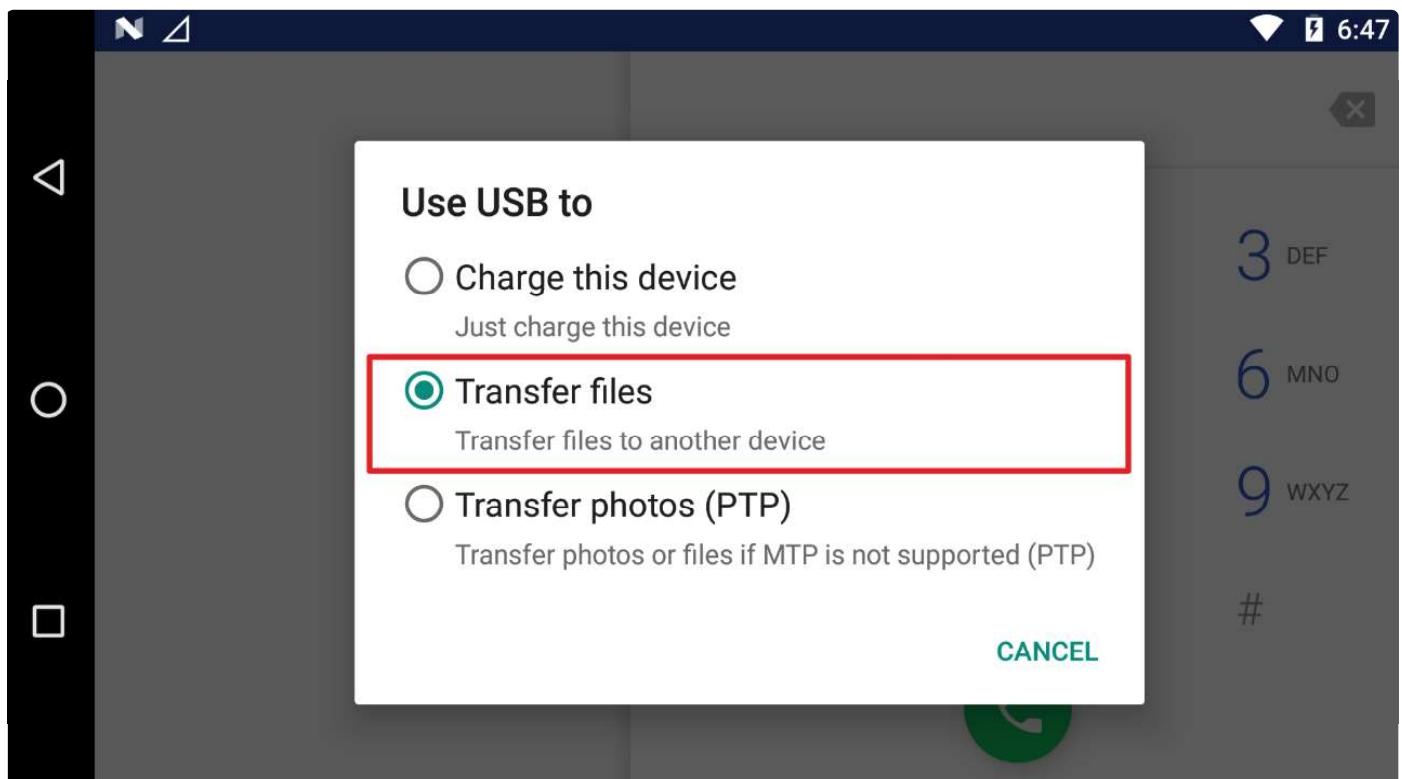


Plug the Ground Staion into a PC using a USB micro cable.

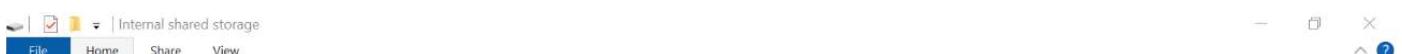
When plugged into a PC, swipe down on the top of the middle of the screen on the Ground Station to pull down the menu bar. Select `USB charging this device` to change the USB settings.

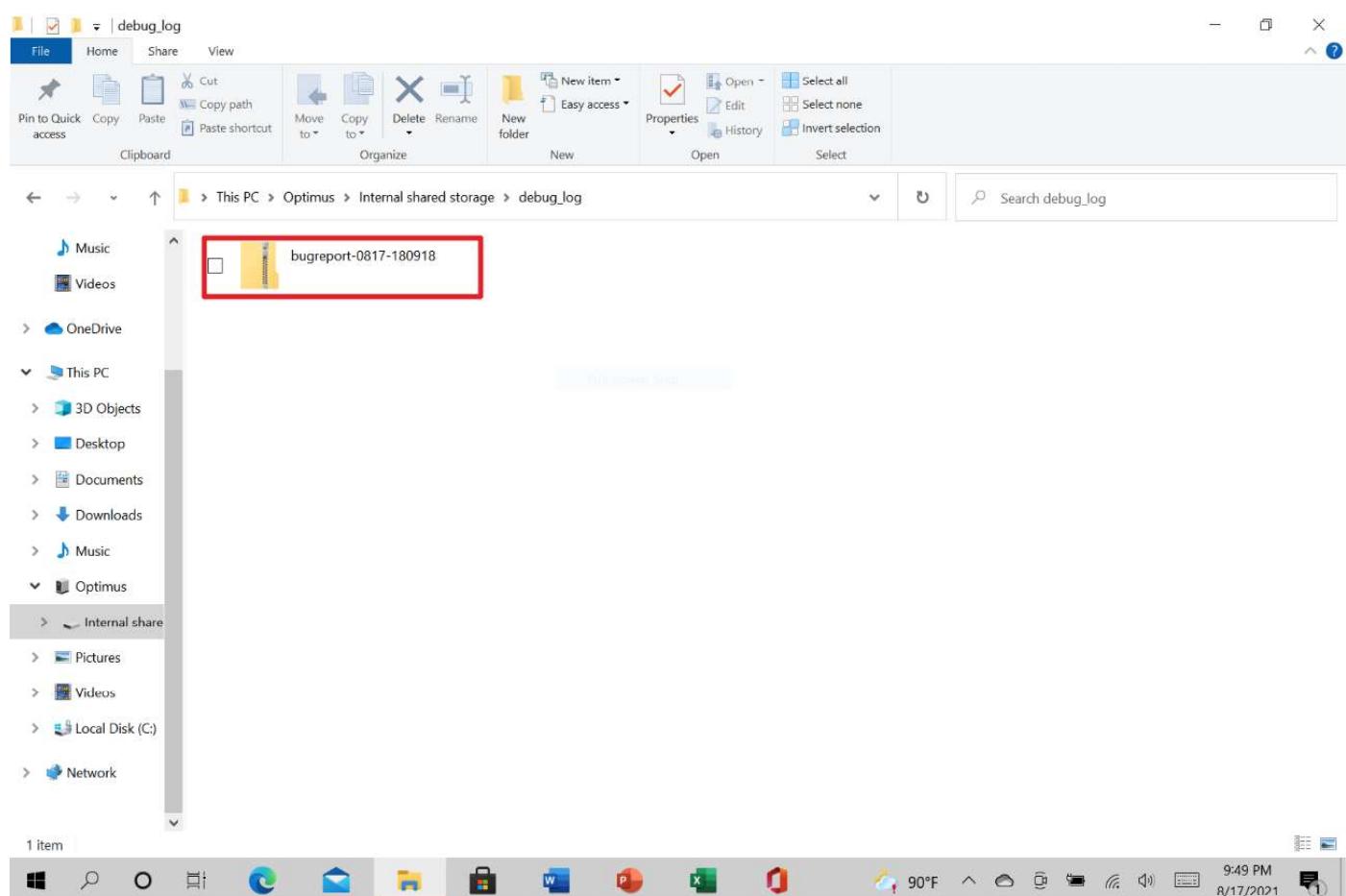
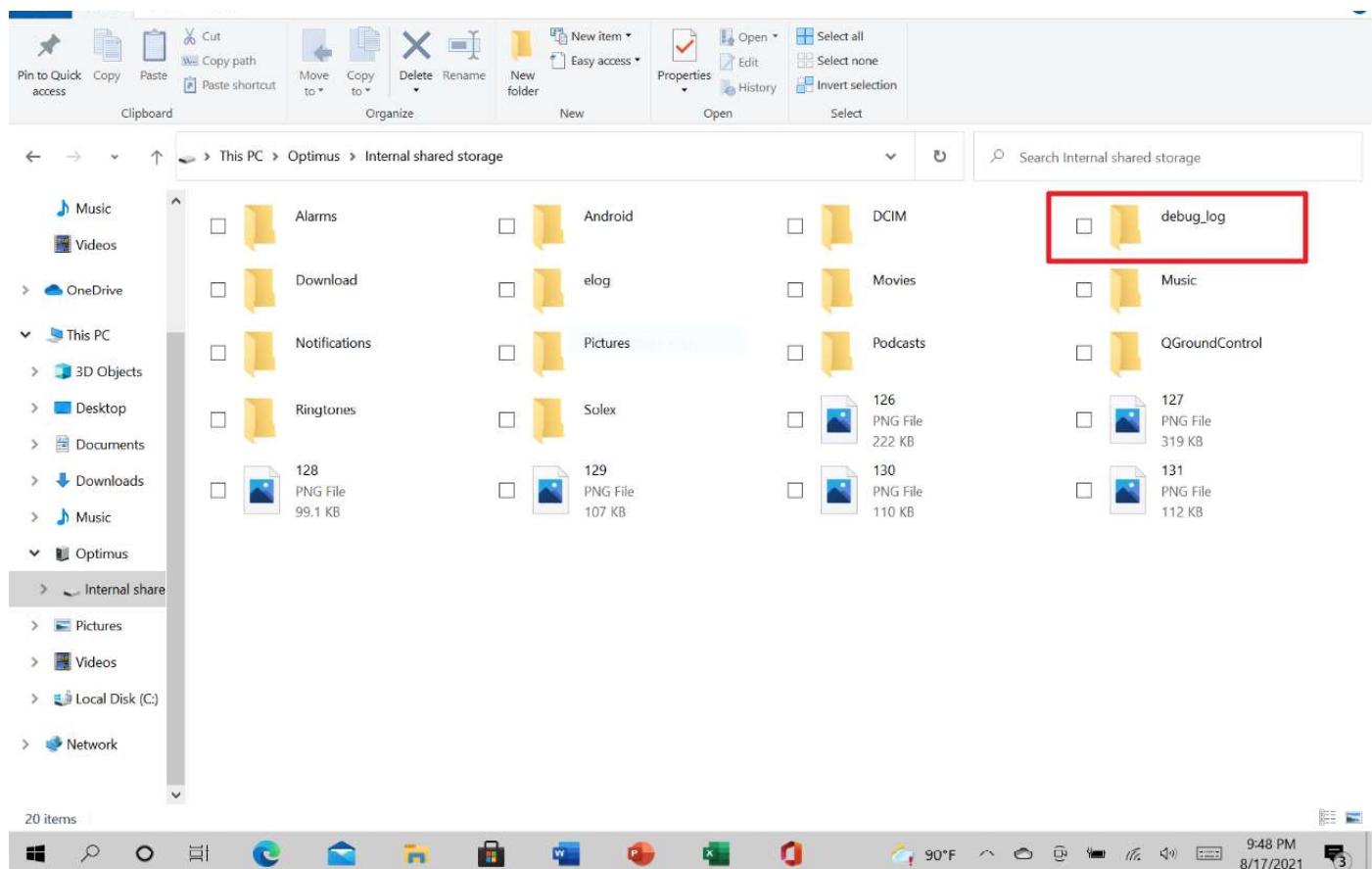


Select `Transfer files` to change the USB settings to allow the Ground Station to act as a storage device when connected to a PC.



On the PC navigate to the `Optimus` folder, then navigate to the `debug_log` folder to access the bug report zip file.





Email us the bug report [support@union-robotics.com](mailto:support@union-robotics.com)

## HereLink Blue FAQs

### Can the language on the controller be switched?

The system language can be switched in the slide down menu.

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### Why aren't the LEDs lit, even though the rover unit are correctly connected?

Check the power input. It should be 5V - 12.6V max (3s Lipo supported) and the battery should be charged.

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### Why can't I connect to 2.4GHz WIFI?

Currently, the Datalink only enables 5.8GHz WIFI for internet connection. Therefore, to load maps, you will need to connect to a 5.8GHz WIFI network.

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### Does the HereLink Blue have data encryption?

The HereLink Blue encryption over the air uses aes-128-ctr