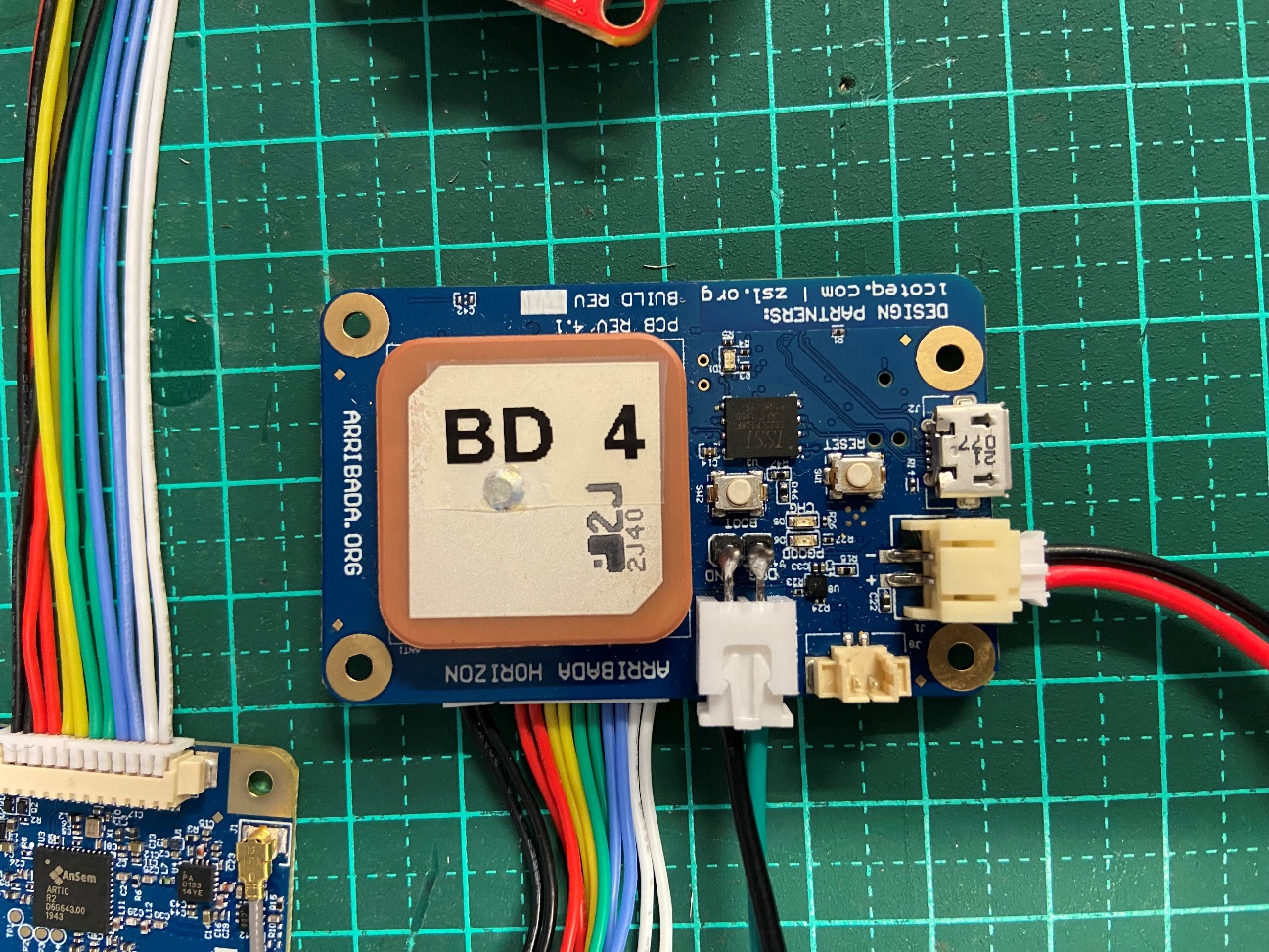
# Collar Board Info

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **BLE Address** | **ARGOS Decimal ID** | **ARGOS  Hex ID** | **Daily Satellite Times  (South Africa & Brisbane)** |
| 1 | E1:8B:35:03:65:AD | 264031 | 7E915F2 | 3am, 11am, 7pm |
| 2 | FB:31:4B:78:F7:A4 | 264032 | 7E94600 | 4am, 12pm, 8pm |
| 3 | FA:B1:DF:F3:95:9B | 264033 | 7E94613 | 5am, 1pm, 9pm |
| 4 | F2:67:7C:42:69:BB | 264034 | 7E94626 | 6am, 2pm, 10pm |
| 5 | EA:0D:ED:48:8A:1D | 264035 | 7E94635 | 7am, 3pm, 11pm |

# Preparing for Deployment

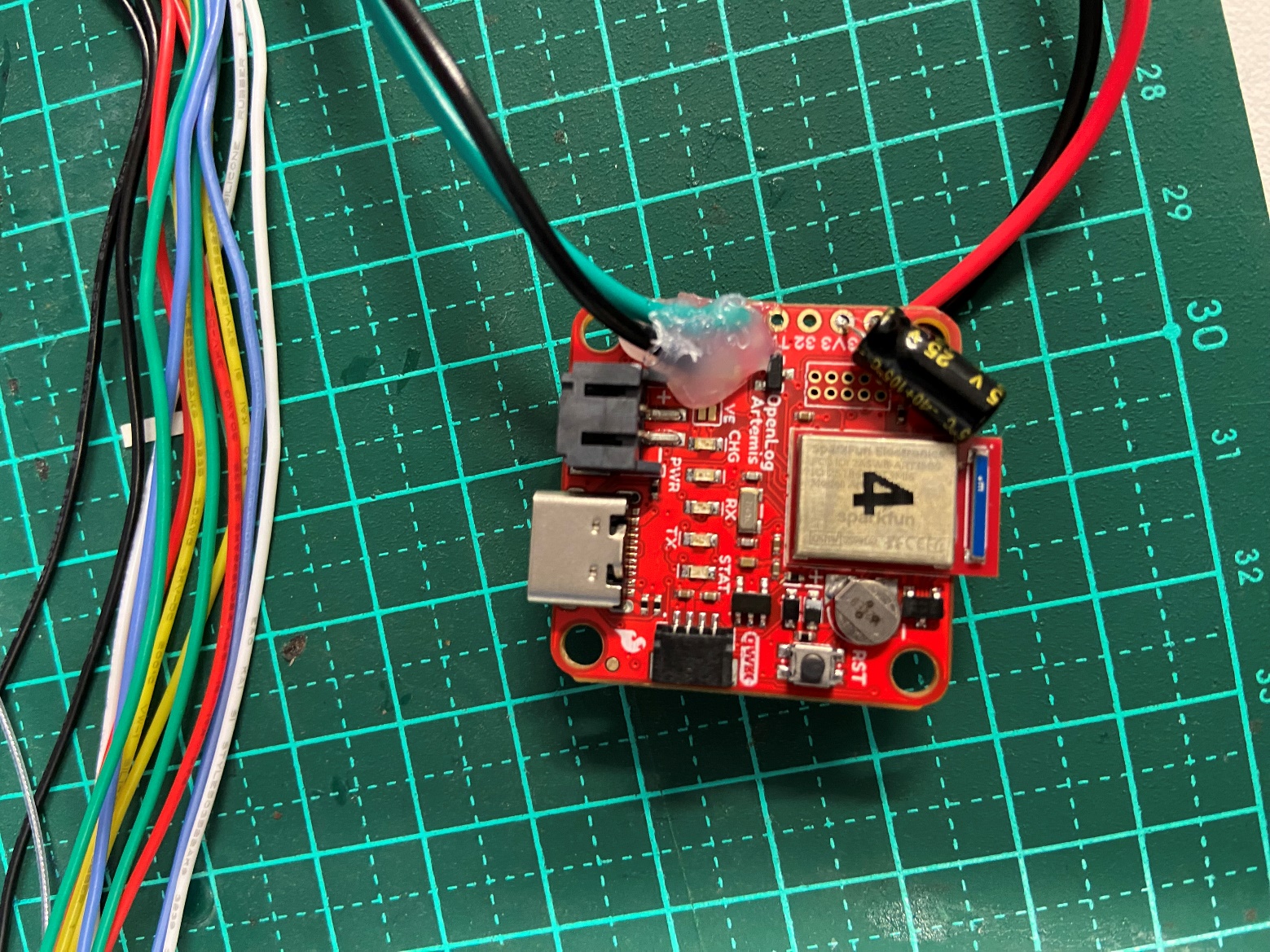
1. Ensure micro-SD card is plugged into OpenLog Artemis before continuing.
2. Plug battery into OpenLog Artemis
3. Press ‘Reset’ button on Arribada Dev Board. The RGB LED should display the following pattern: Turn WHITE, fast flash WHITE, slow flash GREEN.
4. Ensure OpenLog Artemis RED power LED is on, and BLUE status LED (this may be quite dim) is rapidly flashing. If not, press ‘Reset’ button on the OpenLog Artemis.

# Board LEDs and Buttons



RGB LED

RESET Button



Power LED

Status LED

RESET Button

# Accessing Data

GPS and IMU data is stored on the micro-SD card. GPS data is also stored on the Dev Boards in case something goes wrong, though accessing this is more of a process. Ensure OpenLog Artemis is turned off before removing micro-SD card.

IMU data is stored in files called “dataLog[num].txt”, and GPS data is stored in files called “serialLog[num].txt”. Do not edit or remove the files “OLA\_deviceSettings.txt” and “OLA\_settings.txt”.

The GPS data file may look like this:

A screen shot of a computer

Description automatically generated

It will start with some gibberish (this occurs on start-up, and is a UART signal with a much higher BAUD rate – this can be ignored. The GPS coordinates then follow this. Note that the timestamp for each coordinate is BELOW the coordinate (with a space separating). This is highlighted below, with each coordinate’s point grouped to its timestamp.

A screen shot of a computer

Description automatically generated

The timestamp below each coordinate is from the OpenLog Artemis RTC, and will match the IMU data timestamps. There is a chance that the timestamp will put itself somewhere in the middle of the coordinate data; this is from an old version of the firmware and should not happen, though some of them seemed to not be saving the firmware correctly. Either way, it should be relatively straightforward to match the coordinate with its timestamp (and I’m more than happy to help with this).

The IMU log file will look similar to this figure below, with the first row being column titles. Each log file contains 24hrs of data.

A screenshot of a computer program

Description automatically generated

# Satellite Data

Satellite data can be found at <https://argos-system.cls.fr/argos-cwi2/main.html> >> “View your data”.

Username: USC\_WLD  
Password: E68G7645Y8

Select number of days worth of data to see, and click “Search”.

Final digit of ‘Platform ID No.’ gives collar number (see ‘Collar Board Info’ for more details). Latitude and Longitude should be found by scrolling all the way to the right.