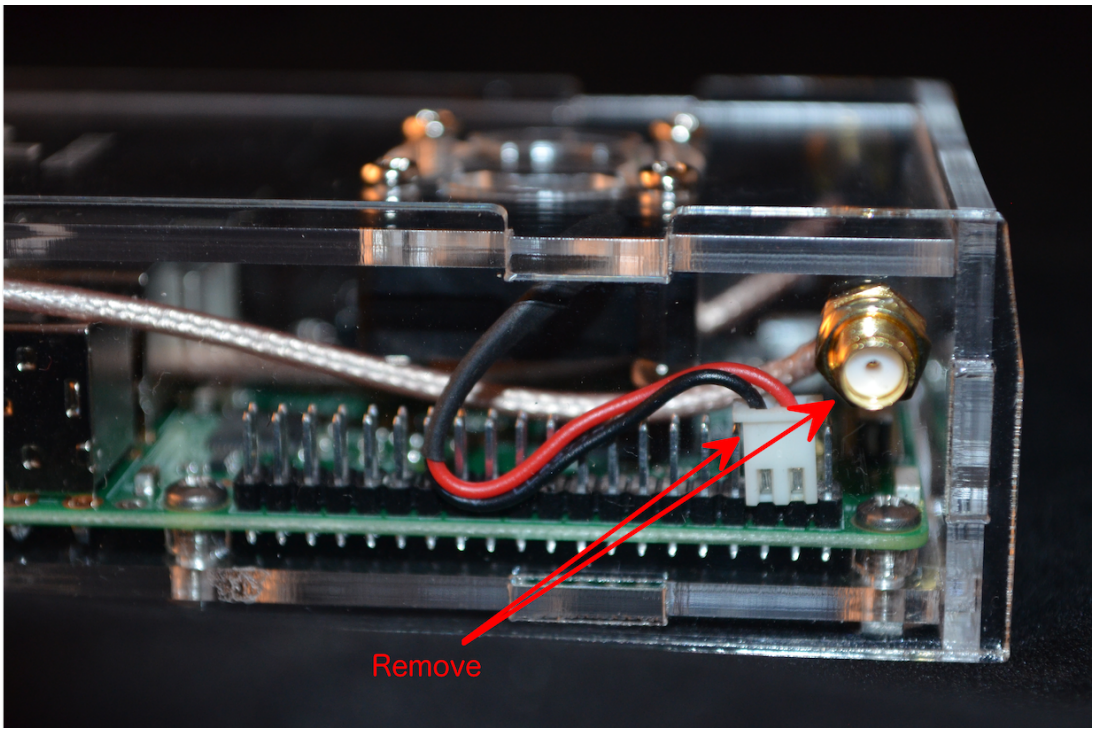
Stratux AHRS Sensor Board v1.1

Last modified: 02/06/2018

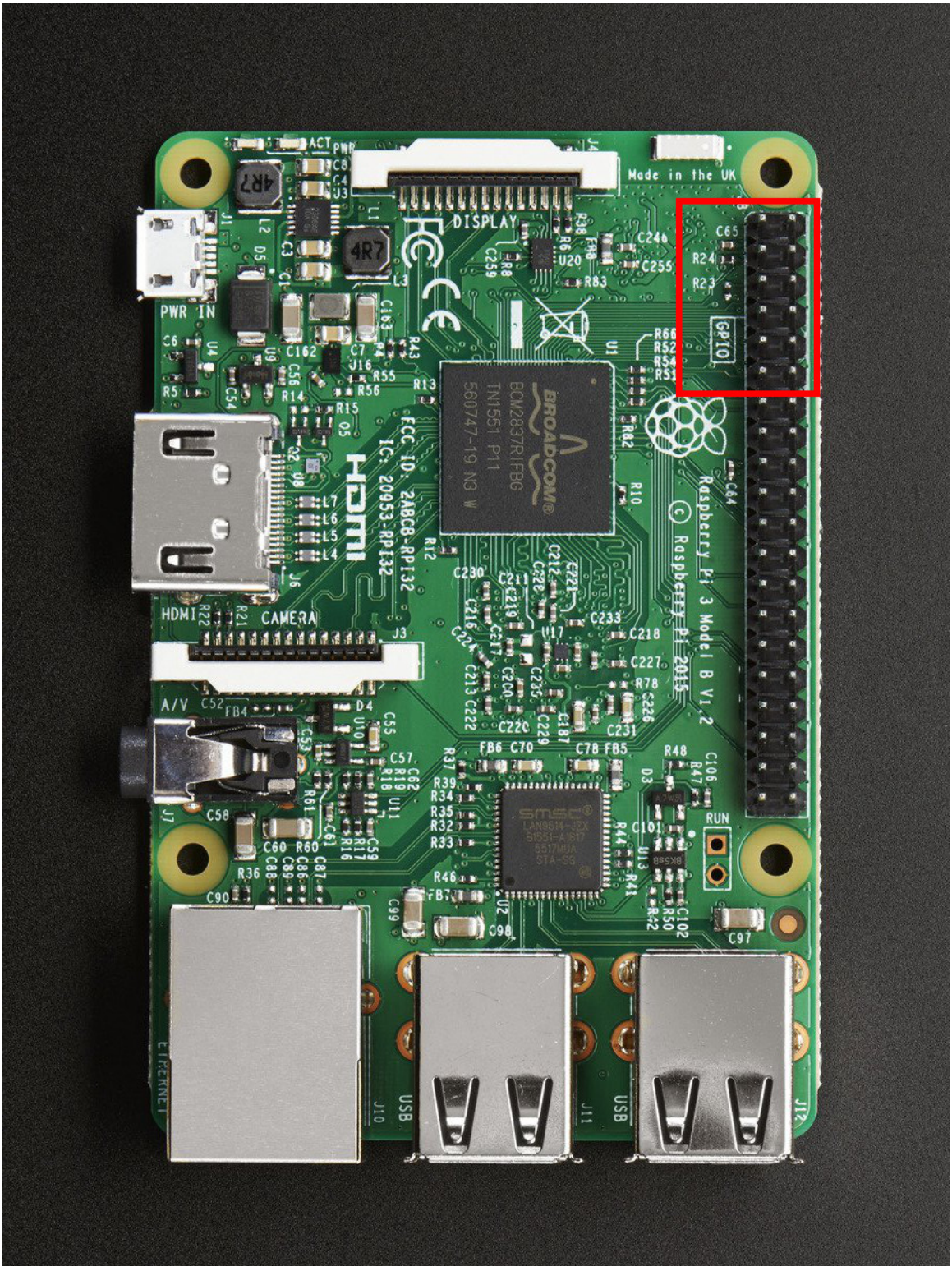
Installation Instructions

1. Verify that your software version is **v1.3b2** or later. Connect to the "stratux" Wi-Fi network and navigate to http://192.168.10.1/. The version is at the top of the page.

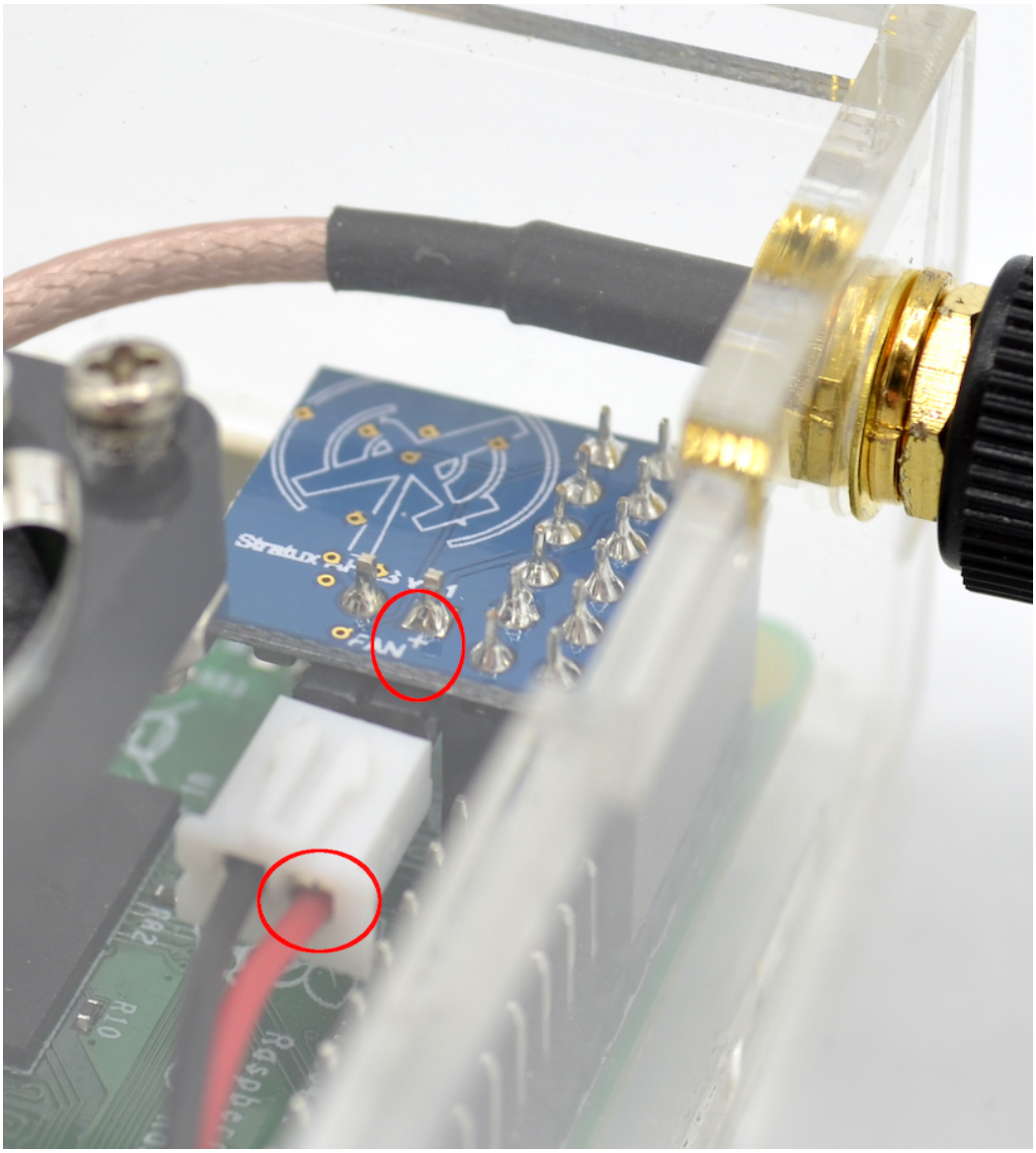
2. Open the anti-static bag containing the module. If you have the clear acrylic case, you will want to remove the antenna connector closest to the header pins (shown with an arrow below). Remove the fan connector. It is not necessary to remove the Raspberry Pi from the case.



3. Insert the sensor board on the Pi pins shown below. With the SD card pointing "UP", the board goes on the top 12 pins. The area outlined in red below shows where the board should go.


GPIO
DISPLAY
PWR IN
HDMI
CAMERA
A/V
Made in the UK
Raspberry Pi 3 Model B V1.2
BCM2837RIFBG
TN1551 P11
560747-19 N3 W
BROADCOM
FCC ID: 2ABCB-RPI32
IC: 20953-RPI32
RUN
USB
USB

4. Re-attach the SMA connector removed in Step 2 and connect the fan with the positive (RED) connected to the pin on the "RIGHT" (with everything oriented as in the previous step) which is labeled "+", as shown below.



5. Installation is complete. You will need to calibrate your sensors according to how you will have the unit oriented when in flight. To start the sensor calibration, browse to http://192.168.10.1/ and then click "Settings". See the "Troubleshooting" section below for common issues. If you encounter an issue that you can't fix, please contact us at products@stratux.me. Thank you.

Troubleshooting

Problem: I don't see AHRS/calibration related settings in the web interface, or there is garbled information.
Solutions:

1. Make sure that you are running firmware **v1.3b2** or later.
2. Clear your browser cache and/or try browsing to the webui using a different workstation or tablet.

Problem: The fan doesn't turn on any more.
Solution: The fan is now controlled via the on-board fan controller, and will turn on as needed based on the CPU temperature on the Raspberry Pi. It may not turn on at all unless it is in a hot environment.