

Stratux Case v2.0

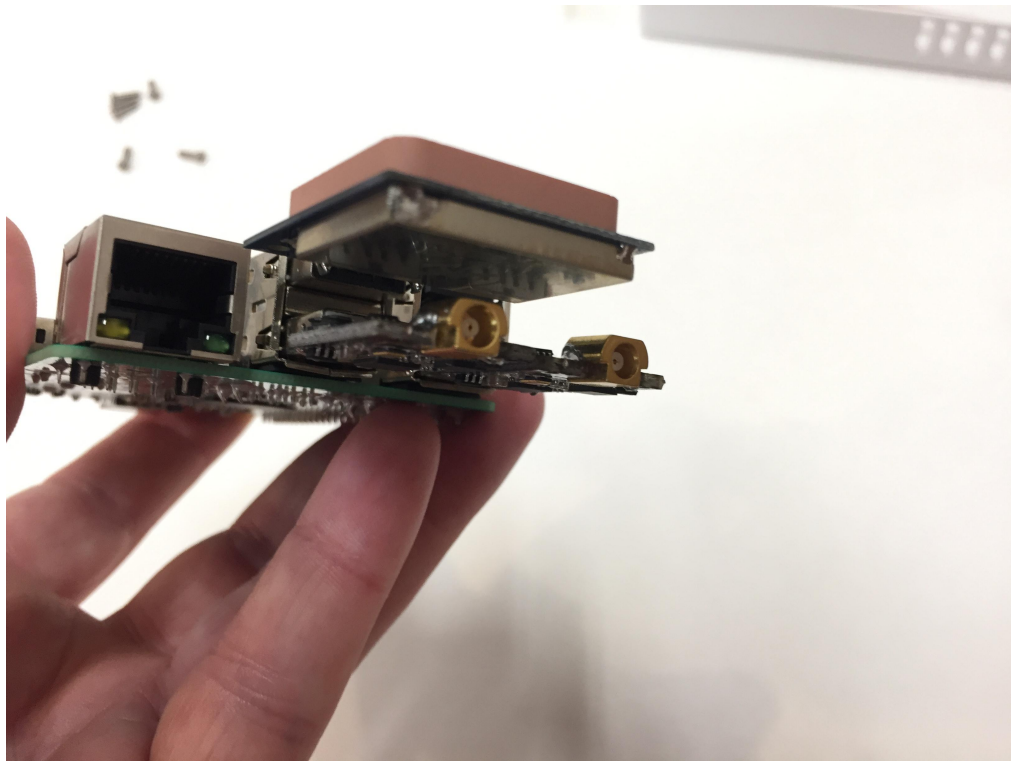
White ABS Injection Molded Case

Assembly Instructions

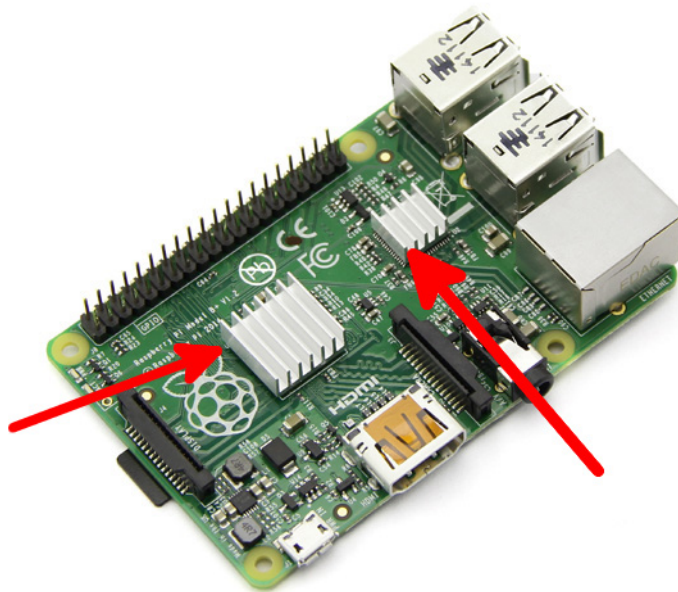
1. **Collect the required items.** The GPS and AHRS board are optional.



2. **Insert the USB devices** that your build will use: “nano” sized SDRs on the bottom USB rows and GPS inserted on the top row (optional). Make sure that the 978 SDR is below the GPS (if installed).



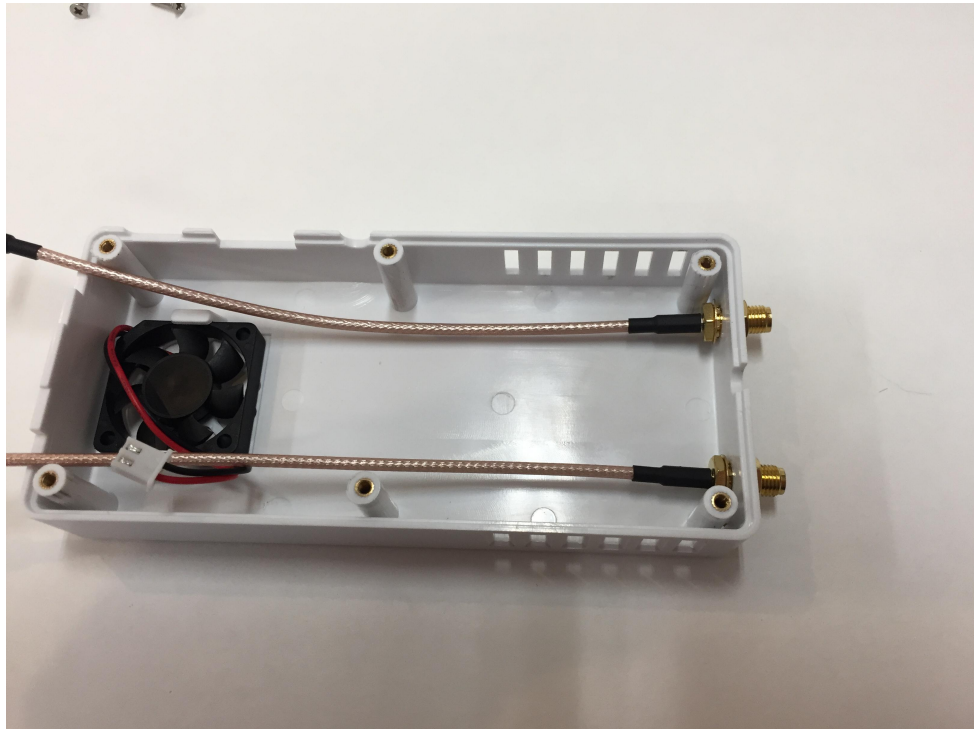
3. **Stick the heat sinks onto the Raspberry Pi 3.**



4. **Optional** – install the AHRS board. The AHRS module goes on the pins closest to the sd card end.

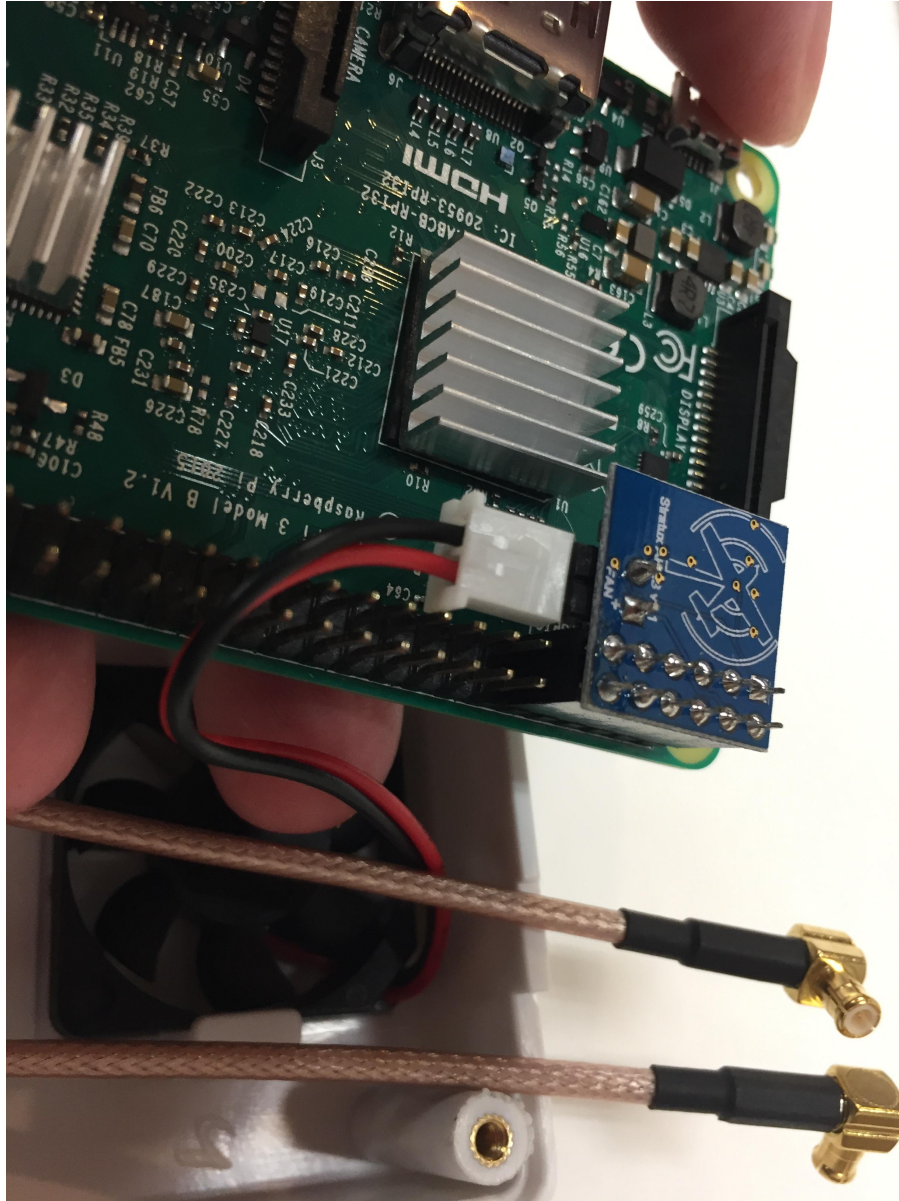


5. **Install the pigtail into the case.** Remove the nuts and one washer, install into opening and then install the lockwashers and nuts. Do not fully tighten the nuts yet since you may want to rotate the cables slightly to get everything fitting better.























6. **Connect the fan.**

If you're using the **AHRS board**, connect the fan like this:



If you are not using the **AHRS board**, connect the fan to Pins 04 and 06, matching up the colors of the wires to those in the diagram:

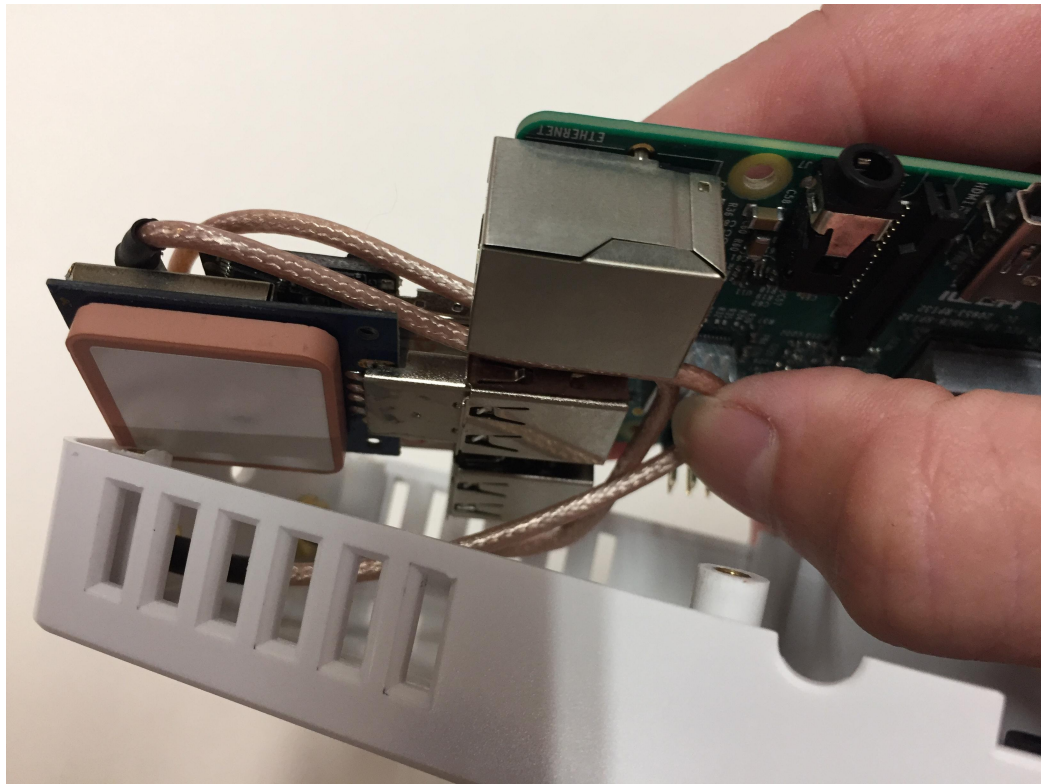
Raspberry Pi 3 GPIO Header

Pin#	NAME		NAME	Pin#
01	3.3v DC Power		DC Power 5v	02
03	GPIO02 (SDA1 , I ² C)		DC Power 5v	04
05	GPIO03 (SCL1 , I ² C)		Ground	06
07	GPIO04 (GPIO_GCLK)		(TXD0) GPIO14	08
09	Ground		(RXD0) GPIO15	10
11	GPIO17 (GPIO_GEN0)		(GPIO_GEN1) GPIO18	12
13	GPIO27 (GPIO_GEN2)		Ground	14
15	GPIO22 (GPIO_GEN3)		(GPIO_GEN4) GPIO23	16
17	3.3v DC Power		(GPIO_GEN5) GPIO24	18
19	GPIO10 (SPI_MOSI)		Ground	20
21	GPIO09 (SPI_MISO)		(GPIO_GEN6) GPIO25	22
23	GPIO11 (SPI_CLK)		(SPI_CE0_N) GPIO08	24
25	Ground		(SPI_CE1_N) GPIO07	26
27	ID_SD (I ² C ID EEPROM)		(I ² C ID EEPROM) ID_SC	28
29	GPIO05		Ground	30
31	GPIO06		GPIO12	32
33	GPIO13		Ground	34
35	GPIO19		GPIO16	36
37	GPIO26		GPIO20	38
39	Ground		GPIO21	40

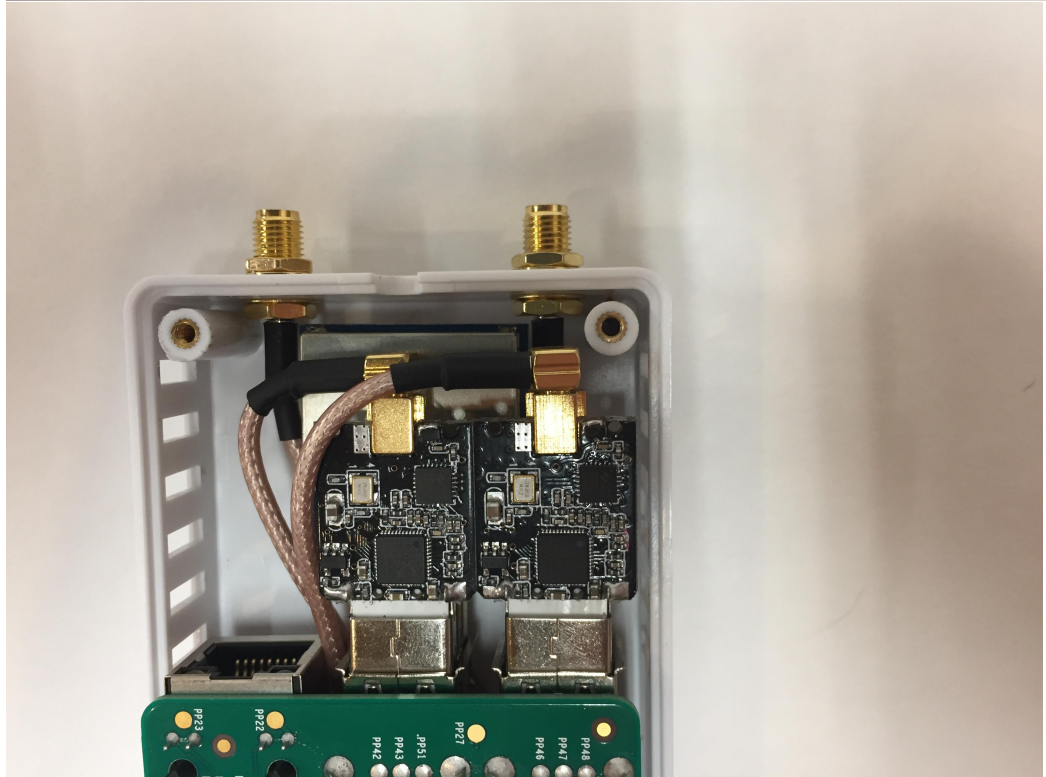
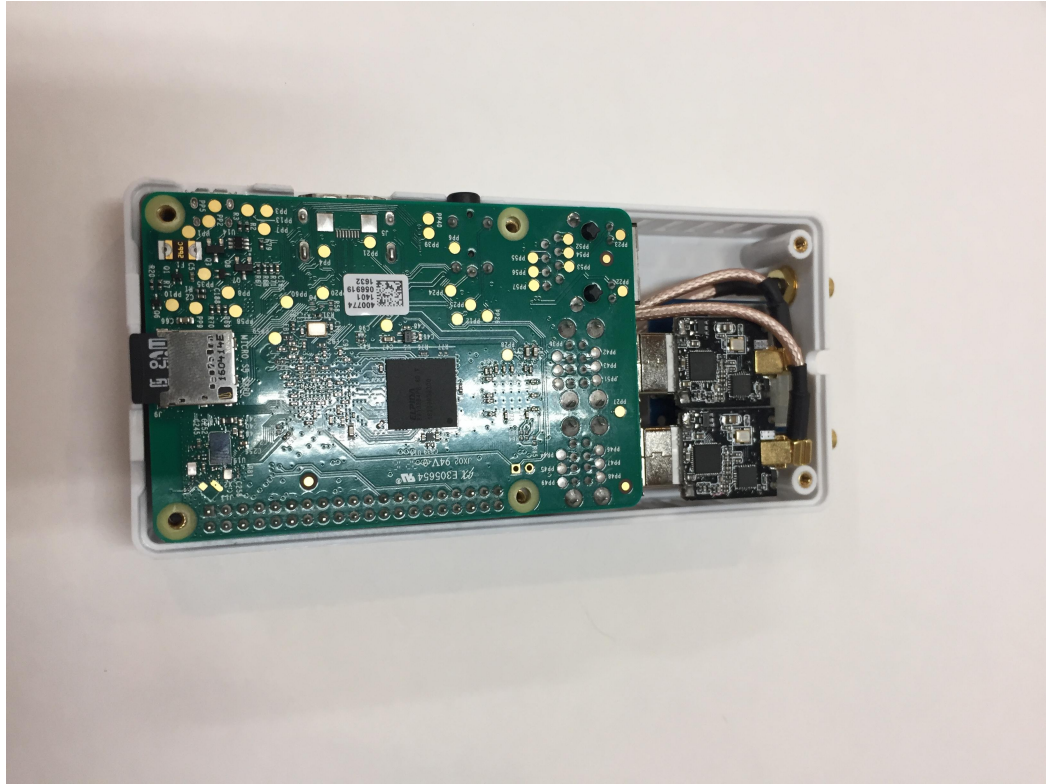
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www.element14.com/RaspberryPi

- Carefully **route the cables** between the USB headers to keep them out of the way of the GPS when the board is installed.



8. **Fasten the antenna pigtails** onto the case so that they are secure. **DO NOT** let one end of the pigtail rotate while tightening, this places strain on the cable and can twist the cable out of its connector. Use a wrench on **both ends** to tighten the nut. Make sure that it is secure enough to twist an antenna on and off, but not too tight that it cracks the case. Finish by situating the Raspberry Pi into the case.



9. Tighten the screws.



10. Assembly is complete. If you have any issues, please contact us at products@stratux.me.