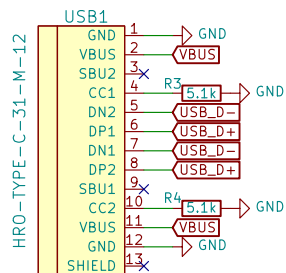


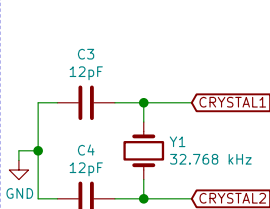
Device will be upstream facing so CC1 and CC2 are pulled down.

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This low frequency crystal can be used for lower power modes.

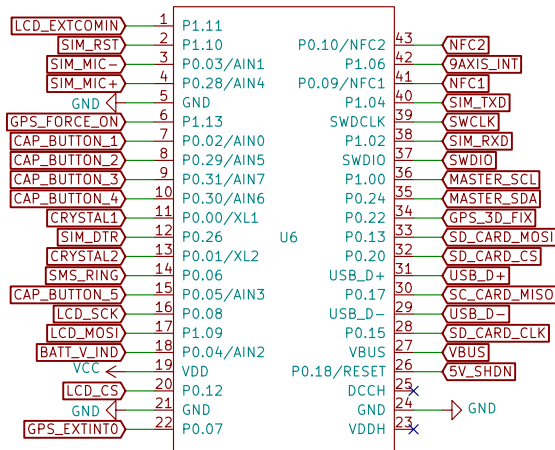
This low frequency crystal can be used for lower power modes.



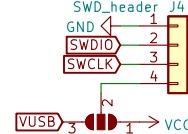
LCD and SD card each have their own SPI bus. Sensors share the I2C bus.

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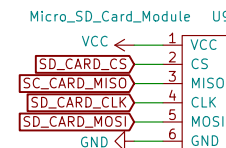


1. **Introduction**



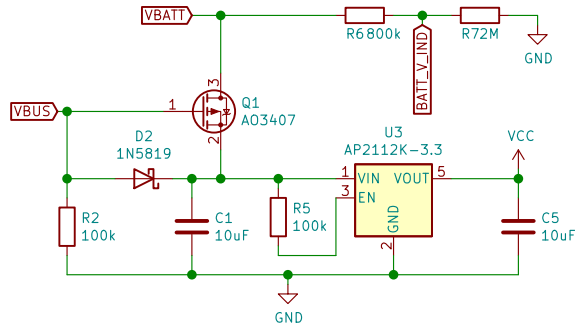
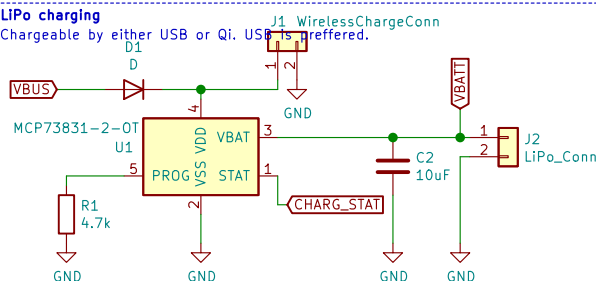
For cost and convenience purposes, I'm using a breakout.
No need for card insertion detection: card is always in.

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No need for card insertion detection: card is always in.



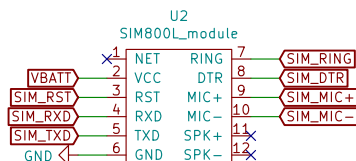
Chargeable by either USB or Qi. USB is preferred.

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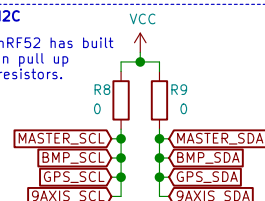
The voltage and high current requirements means powering directly from battery (>1.2Ah) is best. SIM800L has a battery indicator function. DTR is for sleep mode.

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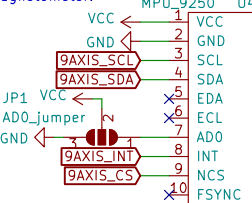
nRF52 has built in pull up resistors.

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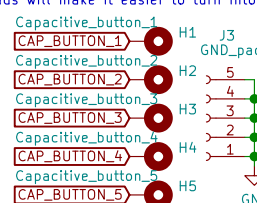
Accelerometer, gyro and magnetometer. MPU 9250. I2C

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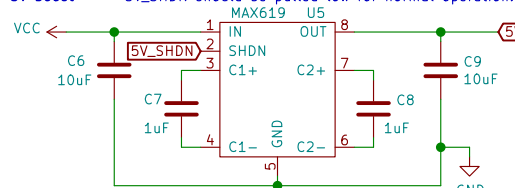
If the capacitive sensors don't work, the ground pads will make it easier to turn into buttons

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No humidity for the BMP280 (only BME280).

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<https://github.com/HalFrgrd/Open-source-bike-computer>

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