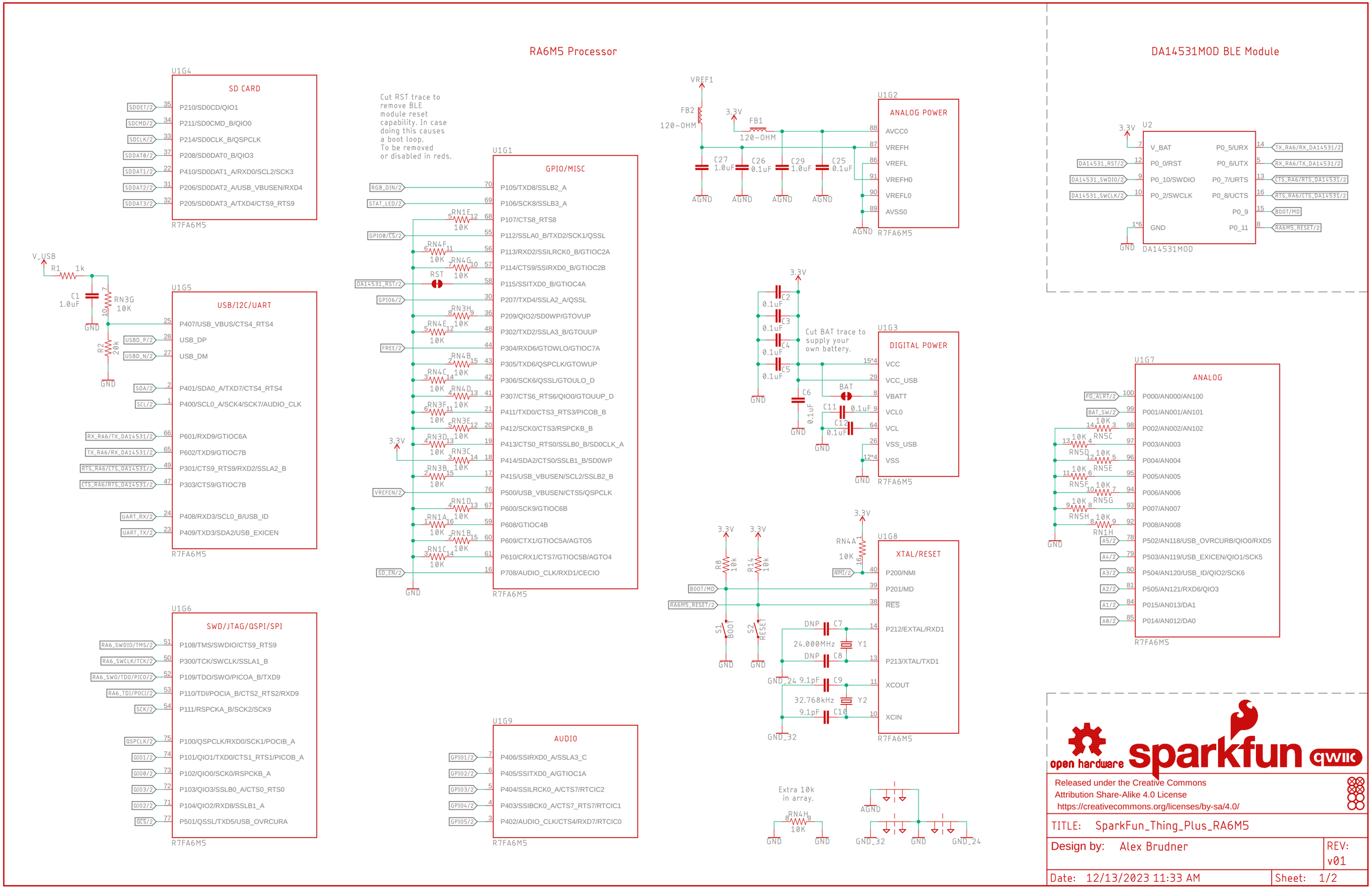
RA6M5 Processor
DA14531MOD BLE Module
U1G4
SD CARD
R7FA6M5
U1G5
USB/I2C/UART
U1G6
SWD/JTAG/QSPI/SPI
U1G1
GPIO/MISC
Cut RST trace to remove BLE module reset capability. In case doing this causes a boot loop. To be removed or disabled in reds.
U1G9
AUDIO
U1G2
ANALOG POWER
U1G3
DIGITAL POWER
Cut BAT trace to supply your own battery.
U1G8
XTAL/RESET
U2
DA14531MOD
U1G7
ANALOG
Extra 10k in array.
open hardware
sparkfun
qwiic
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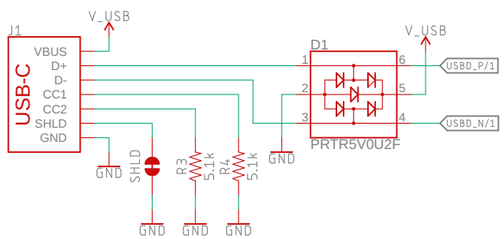
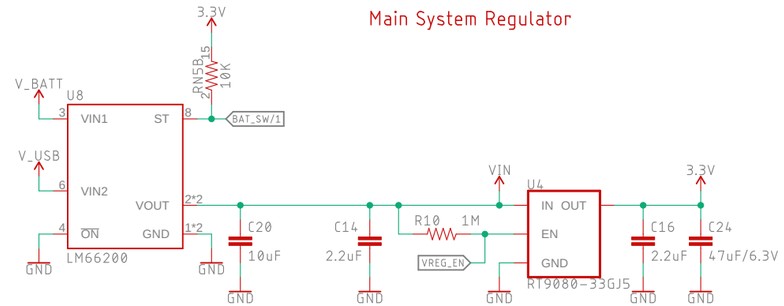
TITLE: SparkFun_Thing_Plus_RA6M5
Design by: Alex Brudner
REV: v01
Date: 12/13/2023 11:33 AM
Sheet: 1/2

USB-C Input

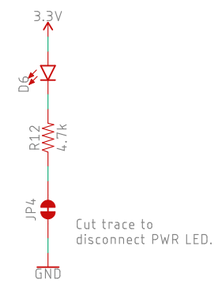


Cut trace to disconnect SHLD from GND.

Main System Regulator

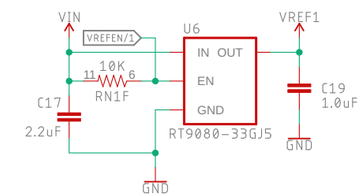


600mA out
5.5V max in

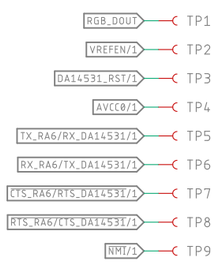


Cut trace to disconnect PWR LED.

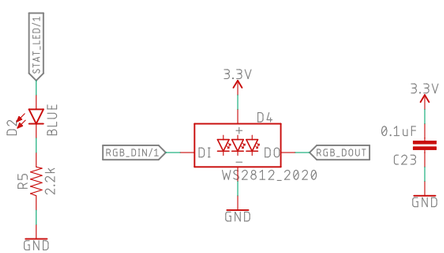
3.3V Voltage Reference



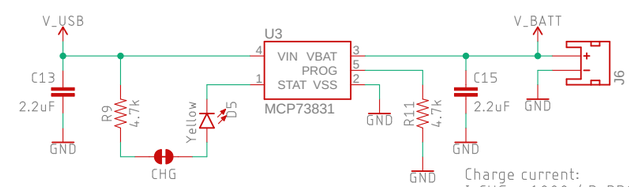
Test Points



LEDs



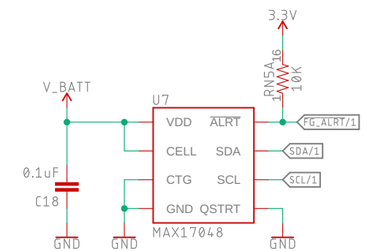
Battery Charger



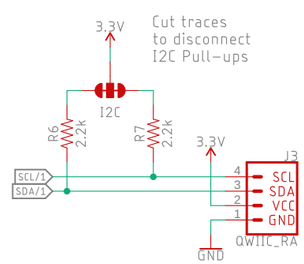
Cut trace to disconnect CHG LED.

Charge current:
I_CHG = 1000 / R_PROG
R_PROG=4.7k : I_CHG=213mA

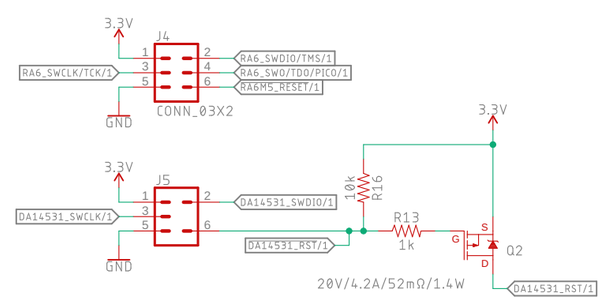
Fuel Gauge



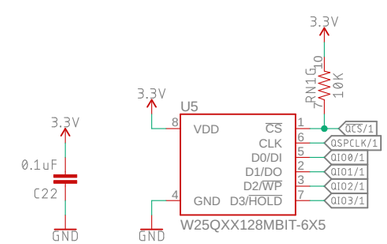
Qwiic Connector



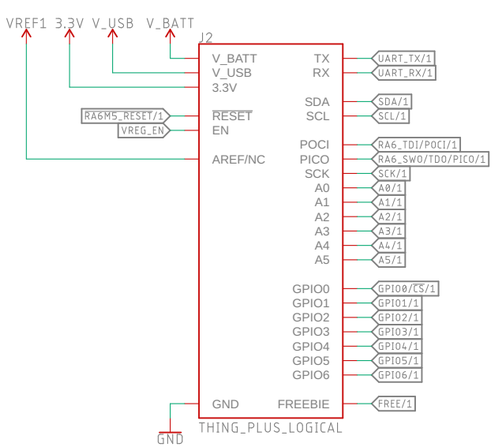
SWD Programming Ports



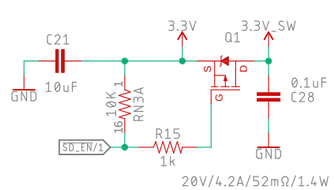
NOR QSPI Flash



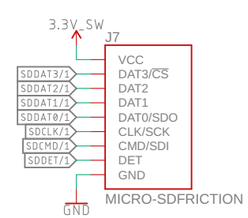
Thing Plus Form Factor



SD Card Power Switch



SD Card



sparkfun

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TITLE: SparkFun_Thing_Plus_RA6M5		
Design by: Alex Brudner		REV: v01
Date: 12/13/2023 11:33 AM	Sheet: 2/2	