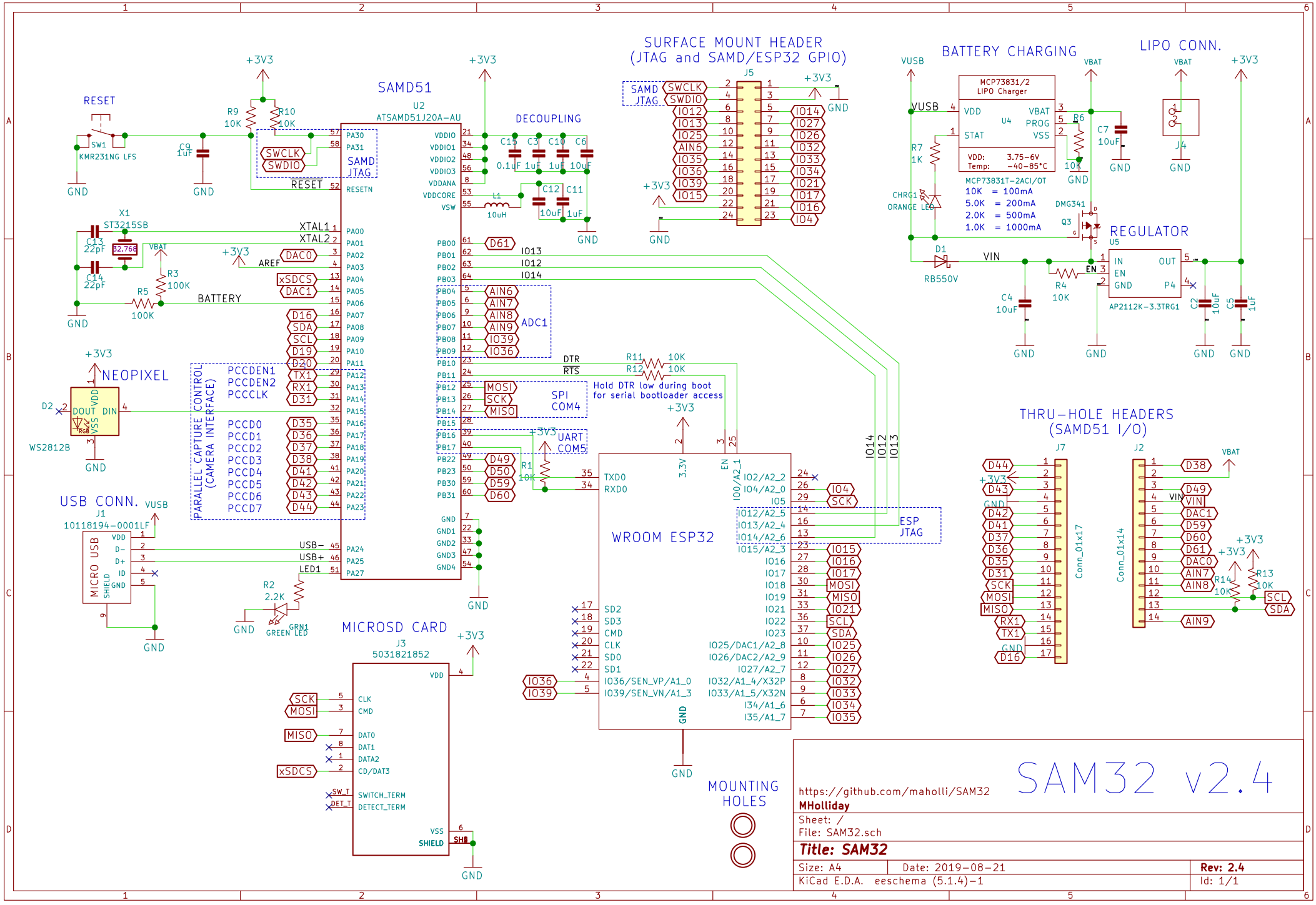
SAM32 v2.4
https://github.com/maholli/SAM32
MHolliday
Sheet: /
File: SAM32.sch
Title: SAM32
Size: A4
Date: 2019-08-21
Rev: 2.4
KiCad E.D.A. eeschema (5.1.4)-1
Id: 1/1
SAMD51
U2
ATSAMD51J20A-AU
RESET
SW1
KMR231NG LFS
SAMD JTAG
SWCLK
SWDIO
RESETN
DECOUPLING
X1
ST3215SB
32.768
XTAL1
XTAL2
AREF
DAC0
xSDCS
DAC1
BATTERY
ADC1
AIN6
AIN7
AIN8
AIN9
I039
I036
NEOPIXEL
WS2812B
PARALLEL CAPTURE CONTROL (CAMERA INTERFACE)
PCCDEN1
PCCDEN2
PCCCLK
PCCD0
PCCD1
PCCD2
PCCD3
PCCD4
PCCD5
PCCD6
PCCD7
USB CONN.
J1
10118194-0001LF
MICRO USB
USB-
USB+
LED1
GREEN LED
MICROSD CARD
J3
5031821852
SPI COM4
MOSI
SCK
MISO
UART COM5
DTR
RTS
Hold DTR low during boot for serial bootloader access
WROOM ESP32
ESP JTAG
SURFACE MOUNT HEADER (JTAG and SAMD/ESP32 GPIO)
J5
BATTERY CHARGING
MCP73831/2 LIPO Charger
MCP73831T-2ACI/OT
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
CHRG1 ORANGE LED
DMG341
RB550V
REGULATOR
AP2112K-3.3TRG1
LIPO CONN.
J4
THRU-HOLE HEADERS (SAMD51 I/O)
J7
J2
Conn_01x17
Conn_01x14
MOUNTING HOLES