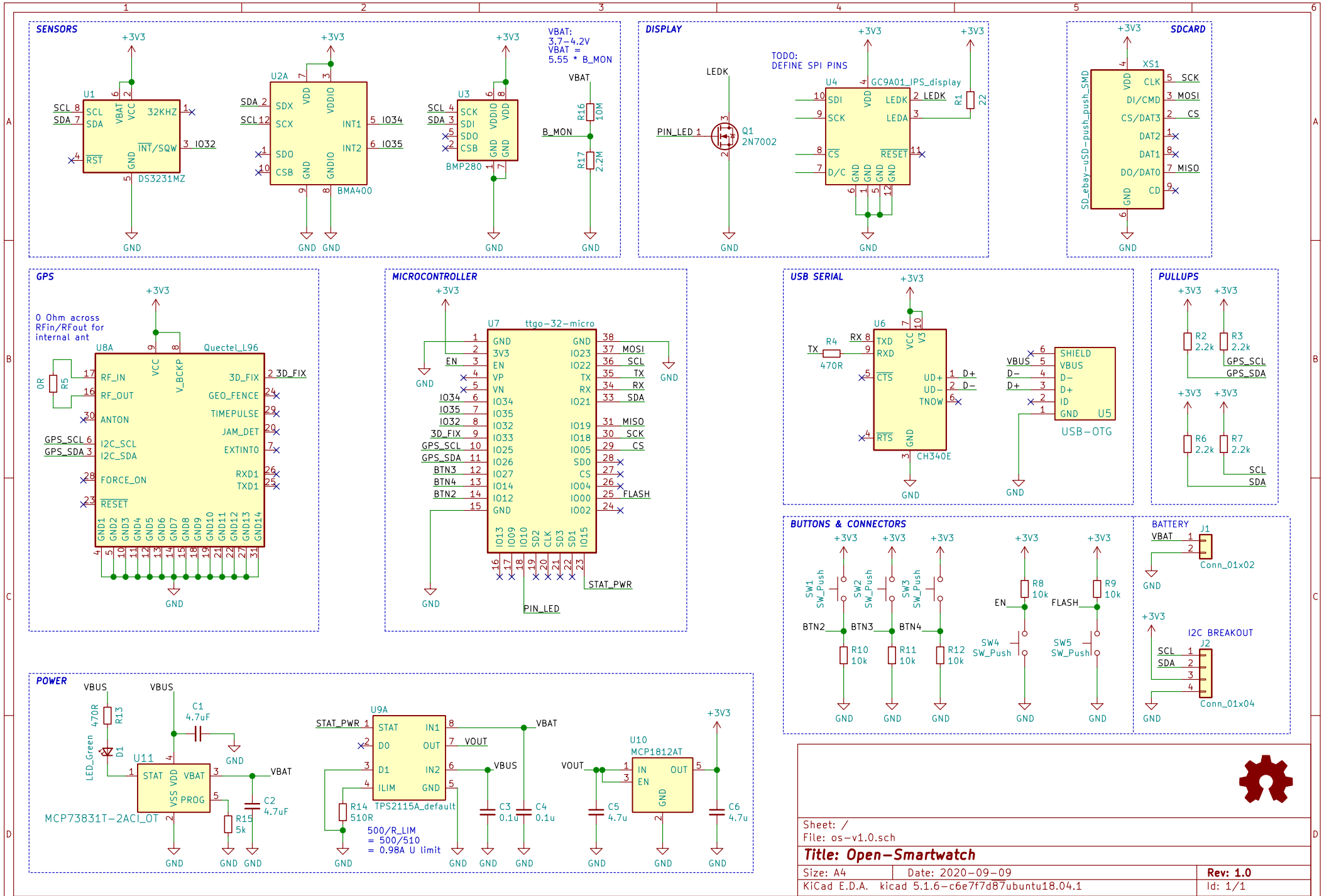
SENSORS
U1
DS3231MZ
U2A
BMA400
U3
BMP280
VBAT:
3.7-4.2V
VBAT =
5.55 * B_MON
R16 10M
R17 2.2M
DISPLAY
TODO:
DEFINE SPI PINS
U4
GC9A01_IPS_display
Q1
2N7002
R1 22
SDCARD
XS1
SD_ebay-uSD-push_push_SMD
GPS
0 Ohm across
RFin/RFout for
internal ant
U8A
Quectel_L96
R5 0R
MICROCONTROLLER
U7
ttgo-32-micro
USB SERIAL
U6
CH340E
R4 470R
U5
USB-OTG
PULLUPS
R2 2.2k
R3 2.2k
R6 2.2k
R7 2.2k
BUTTONS & CONNECTORS
SW1 SW_Push
SW2 SW_Push
SW3 SW_Push
SW4 SW_Push
SW5 SW_Push
R10 10k
R11 10k
R12 10k
R8 10k
R9 10k
BATTERY
J1
Conn_01x02
I2C BREAKOUT
J2
Conn_01x04
POWER
U11
MCP73831T-2ACI_OT
R13 470R
D1 LED_Green
C1 4.7uF
C2 4.7uF
R15 5k
U9A
TPS2115A_default
R14 510R
500/R_LIM
= 500/510
= 0.98A U limit
C3 0.1u
C4 0.1u
U10
MCP1812AT
C5 4.7u
C6 4.7u
Sheet: /
File: os-v1.0.sch
Title: Open-Smartwatch
Size: A4
Date: 2020-09-09
Rev: 1.0
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1
Id: 1/1