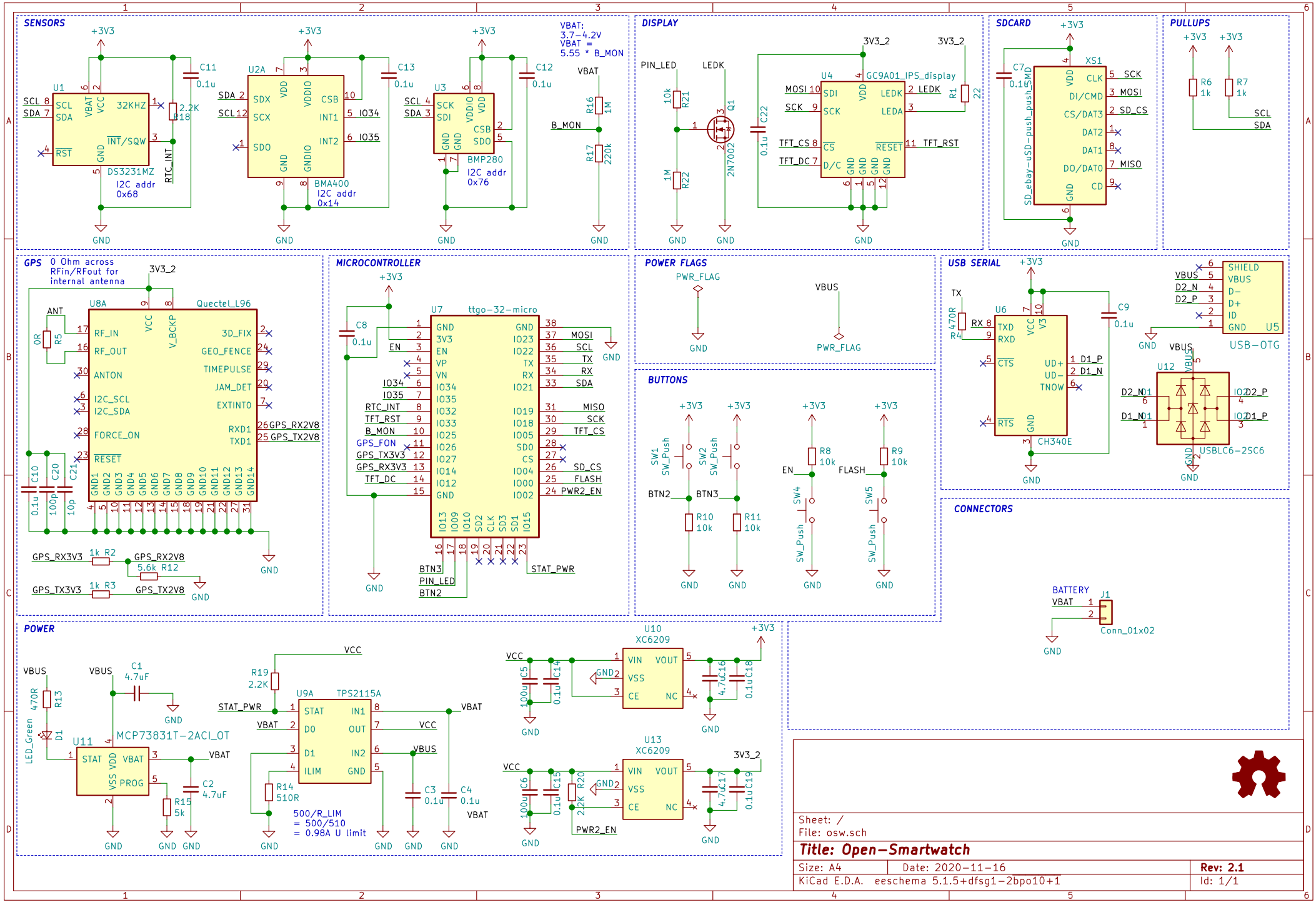
SENSORS
U1
DS3231MZ
I2C addr 0x68
U2A
BMA400
I2C addr 0x14
U3
BMP280
I2C addr 0x76
VBAT: 3.7–4.2V
VBAT = 5.55 * B_MON
DISPLAY
U4
GC9A01_IPS_display
Q1
2N7002
SDCARD
XS1
PULLUPS
GPS
0 Ohm across RFin/RFout for internal antenna
U8A
Quectel_L96
MICROCONTROLLER
U7
ttgo-32-micro
POWER FLAGS
BUTTONS
USB SERIAL
U6
CH340E
U5
USB-OTG
U12
USBLC6-2SC6
CONNECTORS
BATTERY
J1
Conn_01x02
POWER
U11
MCP73831T-2ACI_OT
U9A
TPS2115A
500/R_LIM = 500/510 = 0.98A U limit
U10
XC6209
U13
XC6209
Sheet: /
File: osw.sch
Title: Open-Smartwatch
Size: A4
Date: 2020-11-16
Rev: 2.1
KiCad E.D.A. eeschema 5.1.5+dfsg1-2bpo10+1
Id: 1/1