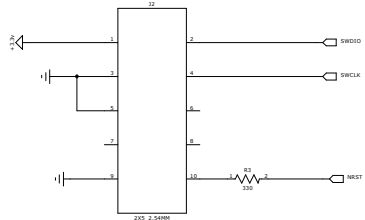
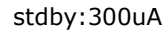
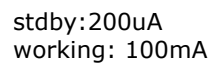


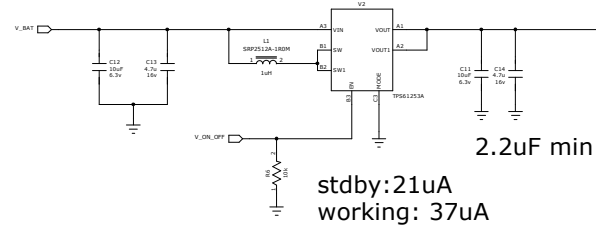
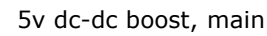
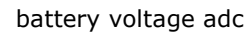
lipo charger and usb power connection



0.5-10um particles  
pms7003

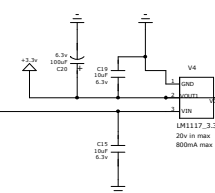


bluetooth

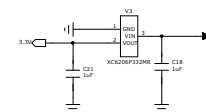


stdby:21uA  
working: 37uA

mcu and display



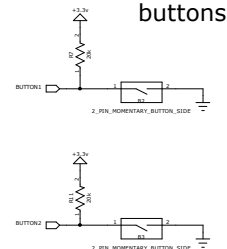
linear reg 3.3v



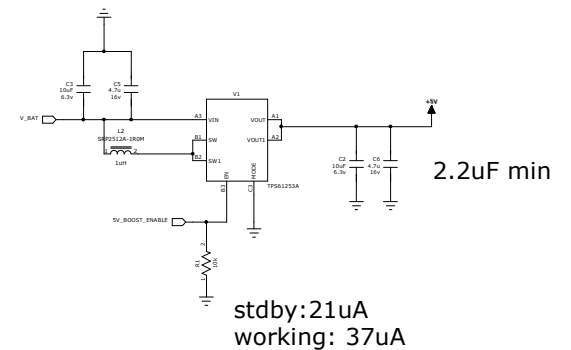
Pin connection diagram for the OLED module:

- DESP\_CS → NCS (Pin 7)
- DESP\_DC → D/C (Pin 6)
- DESP\_RST → NRST (Pin 5)
- DESP\_MOSI → MOSI (Pin 4)
- DESP\_SCK → SCK (Pin 3)
- 2kΩ Resistor → VDD (Pin 2) to GND
- GND (Pin 1) → GND

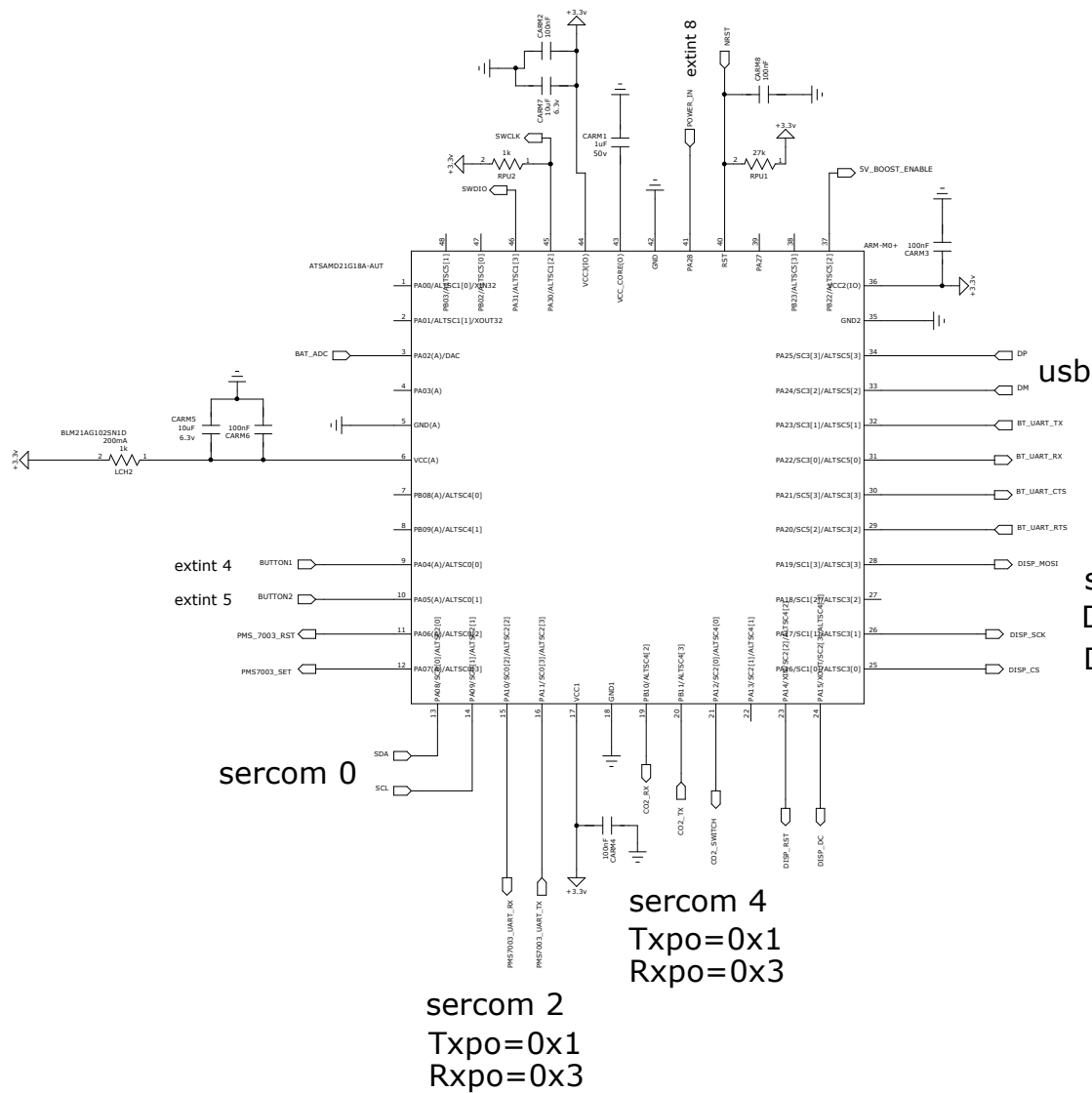
buttons



5v output dc-dc boost, meas



extint 4  
extint 5  
extint 8



```
sercom 0= i2c
sercom 1= display spi
sercom 2=pms7003 uart
sercom 3= bluetooth 4-wire uart
sercom 4 = co2,mh-z19, uart
```

usb

```
sercom 3
Txpo=0x2
Rxpo=0x1
```

```
sercom 1
DiPO=0x0
DOPO=0x2
```

```
sercom 4
Txpo=0x1
Rxpo=0x3
```

Total working: 250mA

Total sleep: 2.5mA