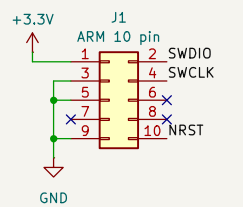
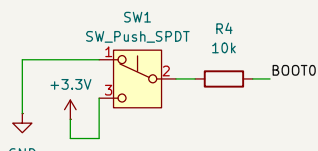


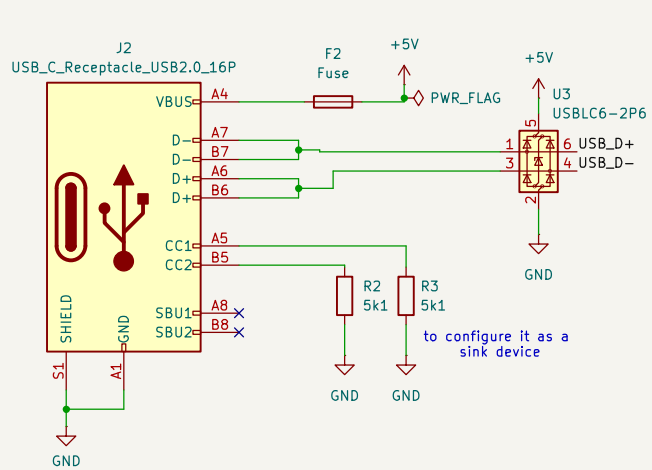
### Serial Wire Debugger



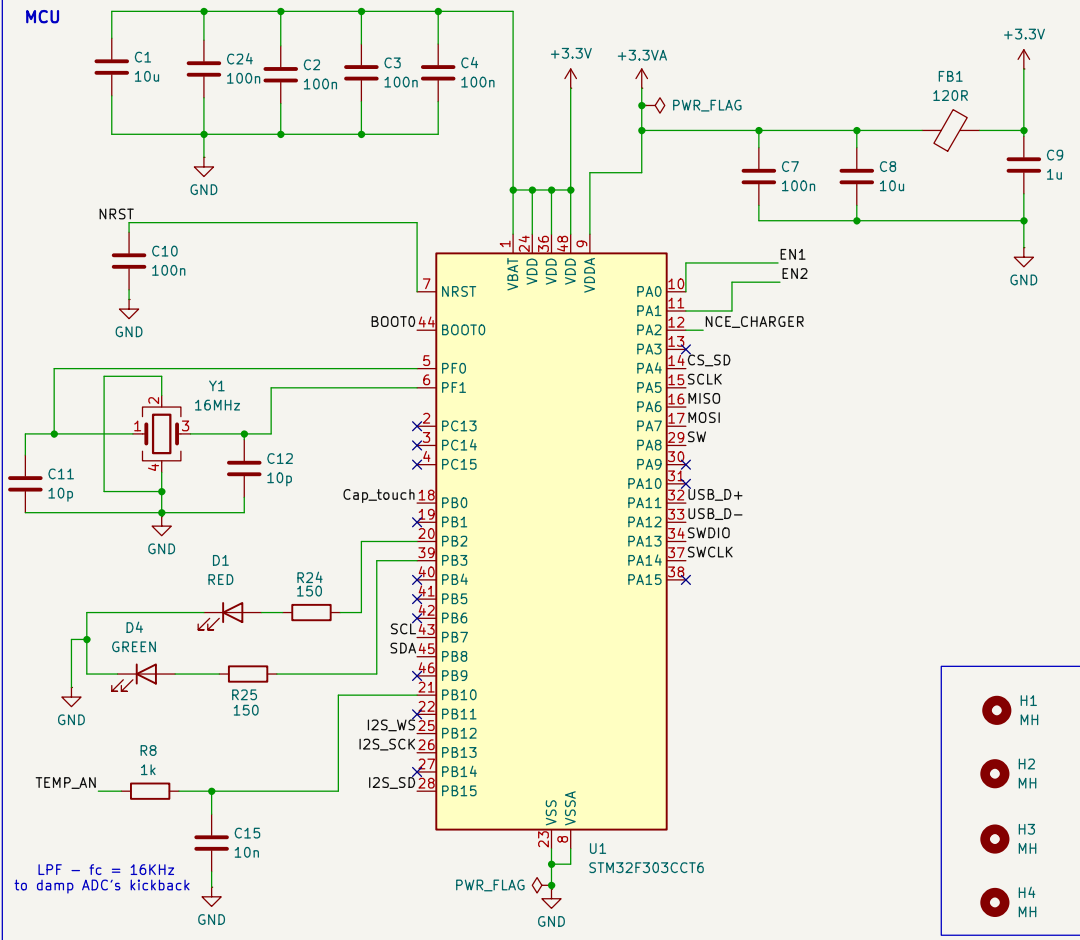
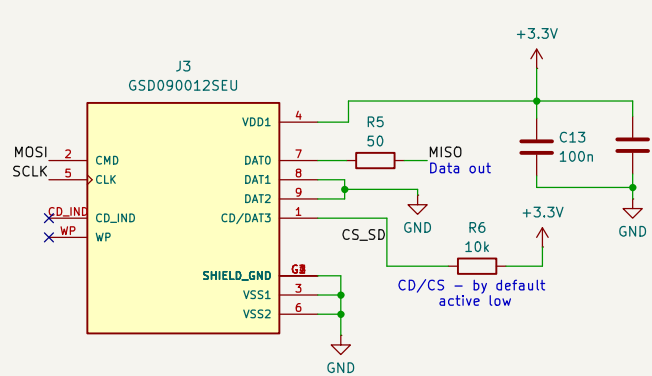
### Internal Bootloader



### USB\_C + ESD

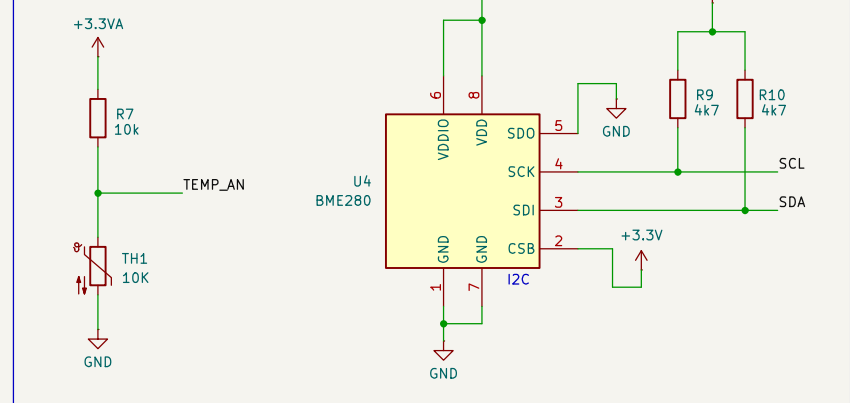


### SD CARD MODULE

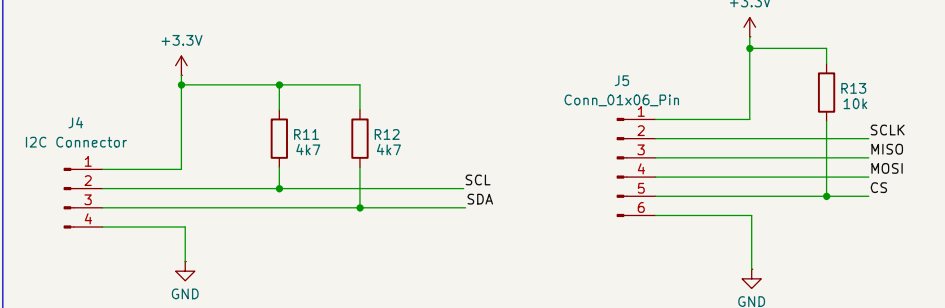


### Temperature sensors

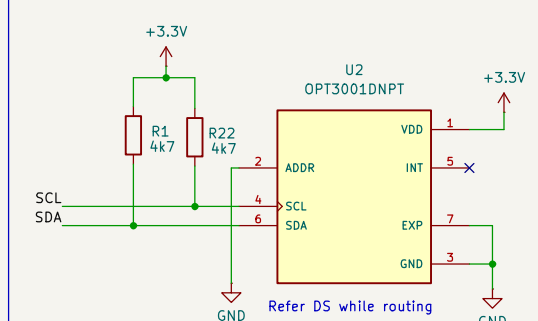
Analog: NTC Resistor  
Digital: BME280



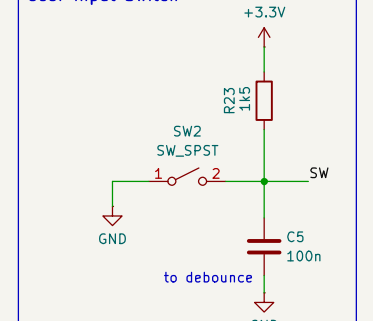
### I2C (OLED) and SPI connectors



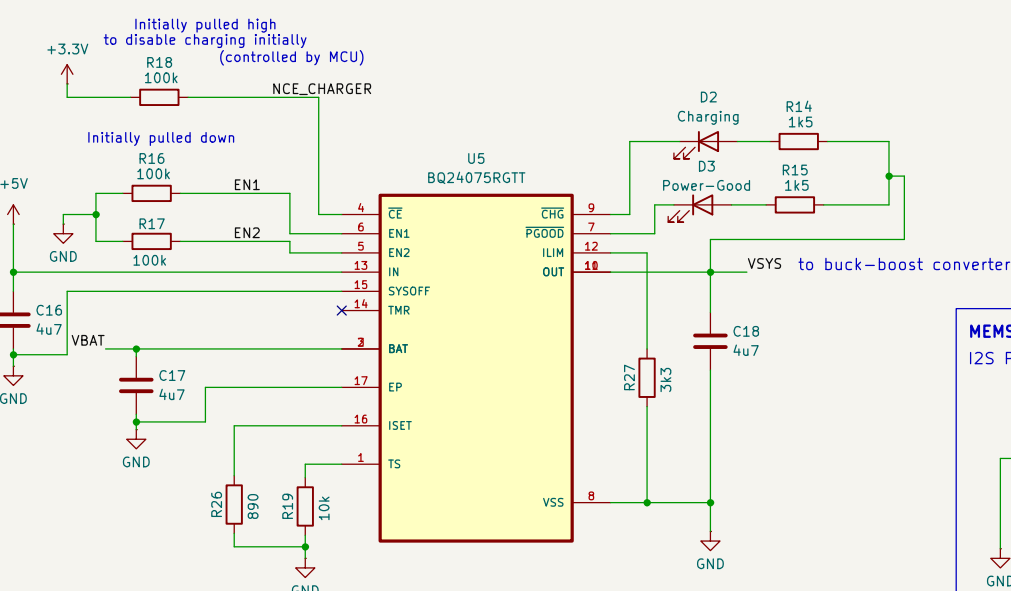
### Optical Sensor



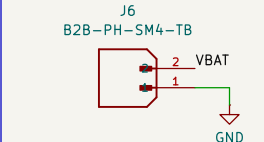
### User Input Switch



### Charger module



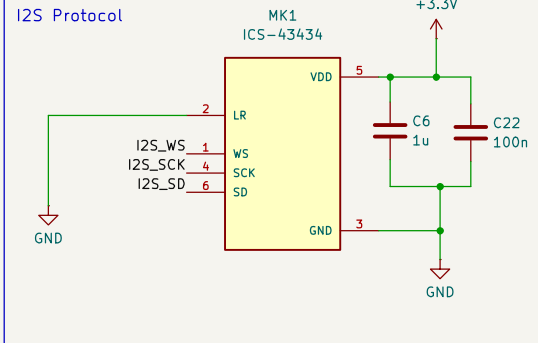
### Battery Connector



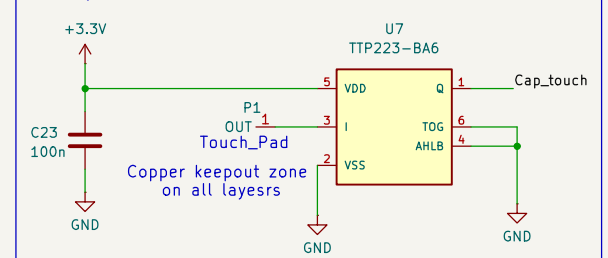
EN2	EN1	MAXIMUM INPUT CURRENT INTO IN PIN
0	0	100 mA. USB100 mode
0	1	500 mA. USB500 mode
1	0	Set by an external resistor from ILIM to VSS
1	1	Standby (USB suspend mode)

Initial in USB100 (charging disabled)  
After Enumeration USB500 (charging enabled)

### MEMS Microphone



### Touch pad



$R_{ISET} = K_{ISET}/L_{CHG}$   
 $890/1A = 890 \text{ Ohm}$   
 $R_{ILIM} = K_{ILIM}/I_{LIN(MAX)}$   
 $= 1500AOhm/500mA = 3k$   
Not CE – high (disable charging)  
– low (enable charging)