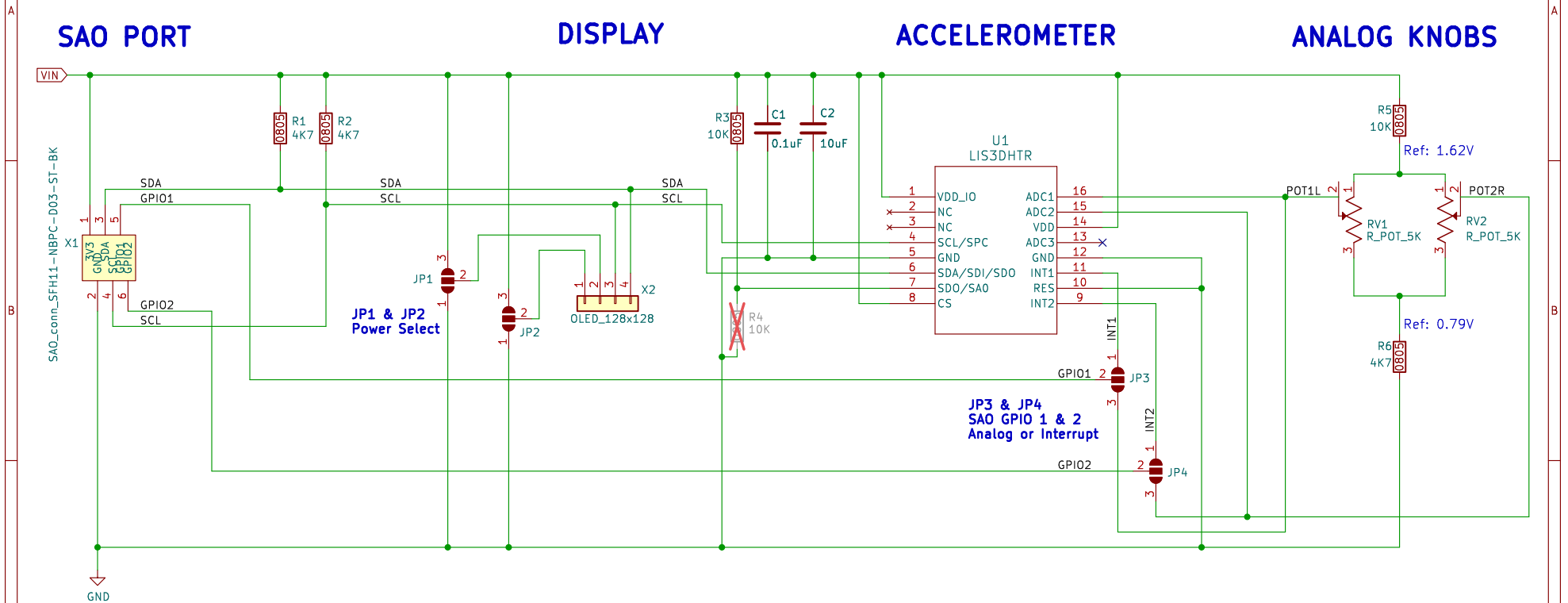


ETCH sAo SKETCH – OLED VERSION



<https://learn.adafruit.com/adafruit-grayscale-1-5-128x128-oled-display>

<https://learn.sparkfun.com/tutorials/lis3dh-hookup-guide/all>

<https://hackaday.io/project/175182-simple-add-ons-sao>
using Sullins SFH11-NBPC-D03-ST-BK female header
<https://www.digikey.com/product-detail/en/sullins-connector-solutions/SFH11-NBPC-D03-ST-BK/S9717-ND/4558818>

CS is high for I2C mode.
ADC input range is 0.8 to 1.6 V (aka 1.2 +/- .4)
ADC 1 and 2 for pots.
ADC3 for internal temperature.

All non-polarized capacitors are X7R or X5R ceramic unless otherwise noted.

<https://hackaday.io/project/197581-etch-sao-sketch>

Concept and design by Andy Geppert © www.MachineIdeas.com

Sheet: /

File: Etch_sAo_Sketch.kicad_sch

Title: Etch sAo Sketch – OLED Version

Size: A Date: 2024-11-18

Rev: 1.1

KiCad E.D.A. 8.0.4

Id: 1/1

I2C ADDRESS TABLE

All 7-bit addresses should be greater than 0x07 and less than 0x78 (120).

| | |
|-------------------------------|---------------------------------------|
| LIS3DHTR 3-AXIS Accel | 0x19 with SDO/SAO high (default) |
| LIS3DHTR 3-AXIS Accel | 0x18 with SDO/SAO low (move R1 to R4) |
| OLED 128x128 1.5 inch SSD1327 | 0x3C (dec 60) |