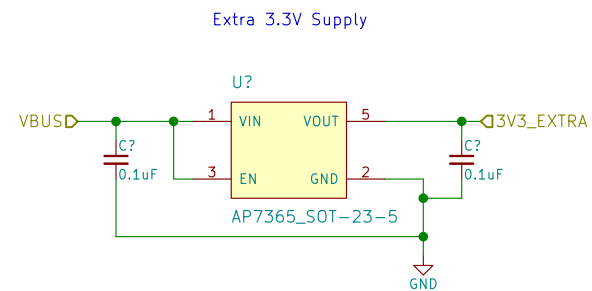
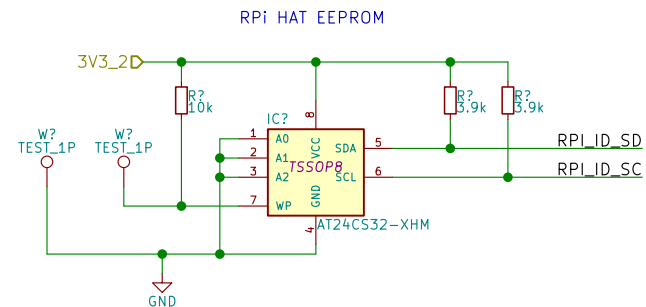
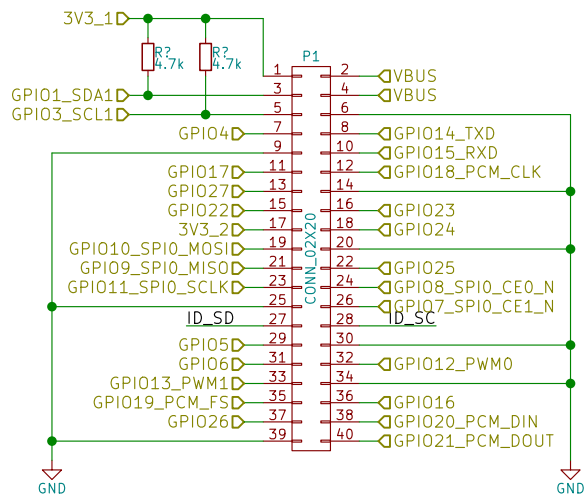


| Pi Model B+ | | | |
|-------------|----|----|--------|
| 3V3 | 1 | 2 | 4V |
| GPIO2 | 3 | 4 | 4V |
| GPIO3 | 5 | 6 | Ground |
| GPIO4 | 7 | 8 | GPIO14 |
| Ground | 9 | 10 | GPIO15 |
| GPIO17 | 11 | 12 | GPIO18 |
| GPIO27 | 13 | 14 | Ground |
| GPIO23 | 15 | 16 | GPIO23 |
| 3V3 | 17 | 18 | GPIO24 |
| GPIO10 | 19 | 20 | Ground |
| GPIO9 | 21 | 22 | GPIO25 |
| GPIO11 | 23 | 24 | GPIO8 |
| Ground | 25 | 26 | GPIO7 |
| ID_SD | 27 | 28 | ID_SC |
| GPIO5 | 29 | 30 | Ground |
| GPIO6 | 31 | 32 | GPIO12 |
| GPIO13 | 33 | 34 | Ground |
| GPIO19 | 35 | 36 | GPIO16 |
| GPIO26 | 37 | 38 | GPIO20 |
| Ground | 39 | 40 | GPIO21 |

www.raspberrypi.org/documentation/hardware/raspberrypi/pin-list.md



Sheet: /labio-rpi/
File: labio-rpi.sch

Title:

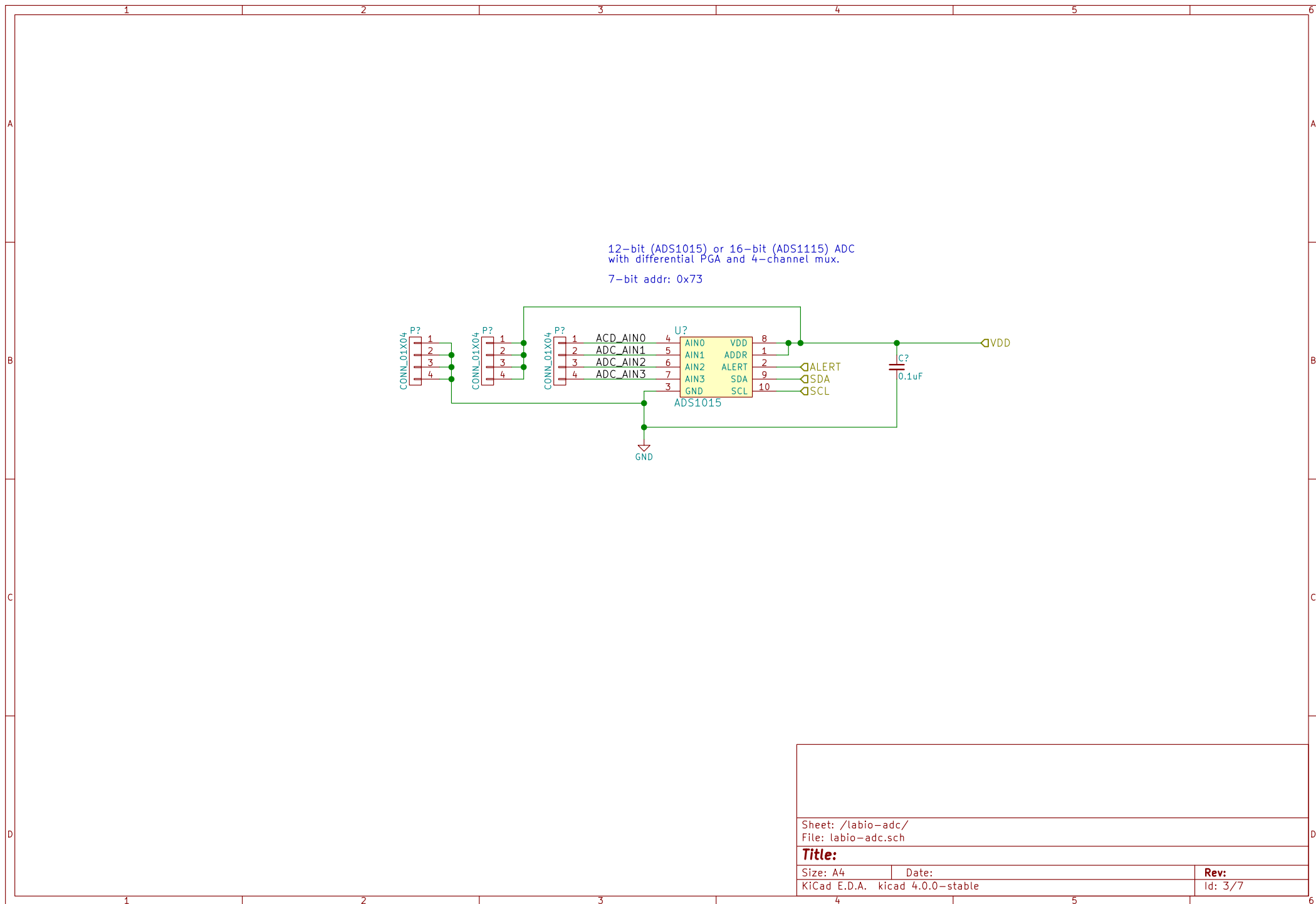
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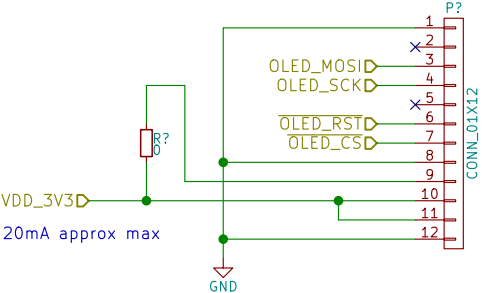
KiCad E.D.A. kicad 4.0.0-stable

Rev:

Id: 2/7



CFAL12832D-B* OLED Display
3-wire SPI mode.

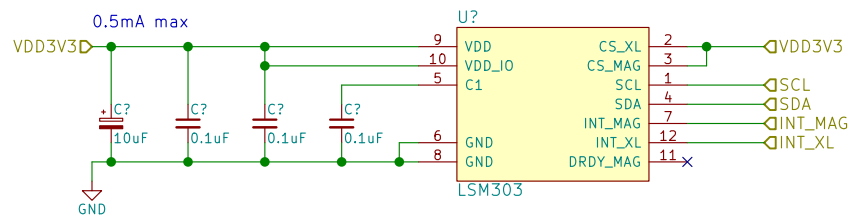


Interface

| Pin No | Sym | 3 Wire SPI | 4 Wire SPI | I2C |
|--------|------|------------|------------|-------|
| 1 | GND | GND | GND | GND |
| 2 | D2 | NC | NC | SDA* |
| 3 | D1 | SDA | SDA | SDA* |
| 4 | D0 | CLK | SCLK | SCL |
| 5 | D/C# | NC | D/C | Vcc |
| 6 | RES# | RESET | RESET | RESET |
| 7 | CS# | GND | GND | GND |
| 8 | BS1 | GND | GND | Vcc |
| 9 | BS0 | Vcc | GND | GND |
| 10 | Vdd | Vcc** | Vcc** | Vcc** |
| 11 | Vbat | Vcc** | Vcc** | Vcc** |
| 12 | GND | GND | GND | GND |

| | |
|-----------------|--|
| Microcontroller | Control lines defined by layout / code |
| +3.3v | Supply voltage |
| Ground | Supply ground |
| Notes: | |
| * | Tie D2 and D1 together |
| ** | Okay to Tie Vdd and Vbat together |

6-DOF Accelerometer + Compass
Keep currents higher than 10mA
a few mm away from compass.
7-bit I2C Addr:



Pressure + Temperature
7-bit I2C Addr: 0x77

