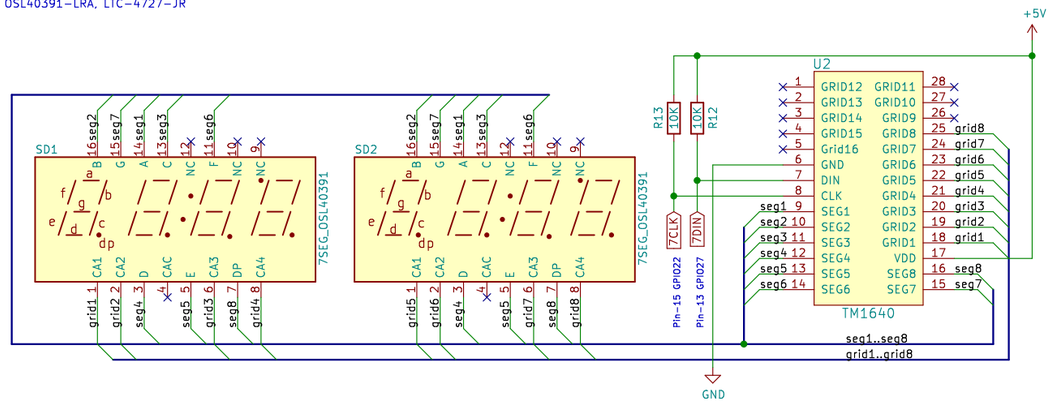
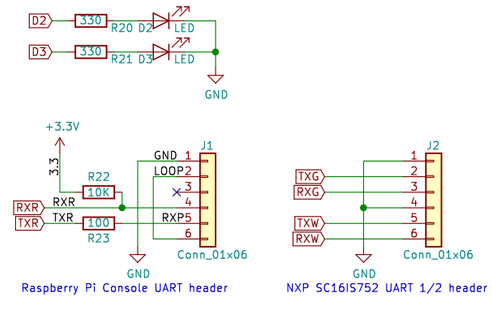
2x 4-digit 7-Segment LED display modules 0.39", Common Cathode type
OSL40391-LRA, LTC-4727-JR

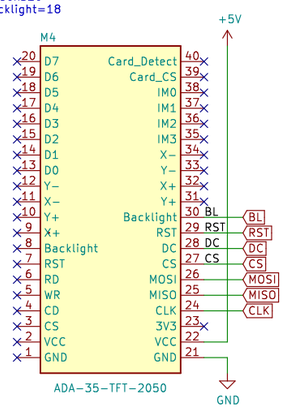


External Interface Connectors: RPi UART, I2C. Status LED.

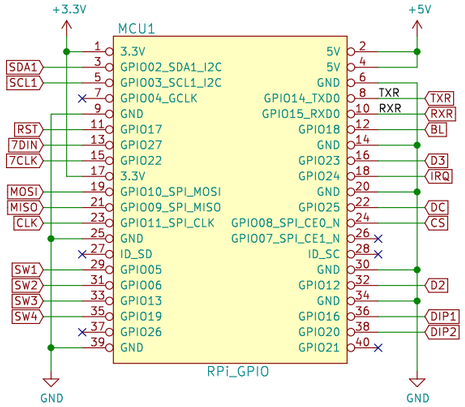
Raspberry Pi status LED (GPIO23, GPIO12)



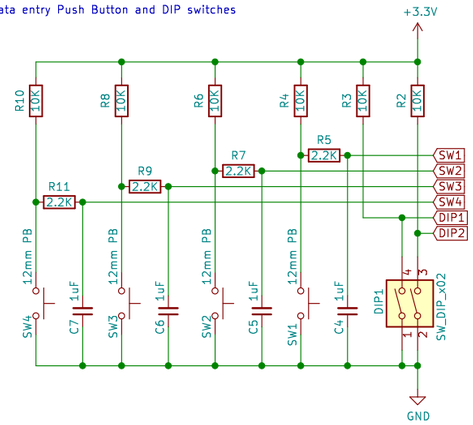
Adafruit 3.5" TFT display 480x320
SPI, DC=25, Reset=18, Backlight=18



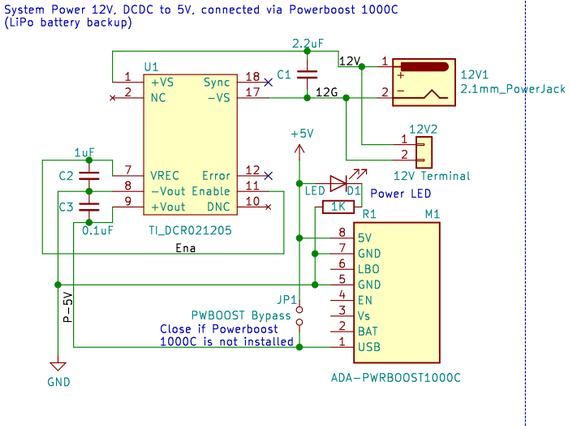
Raspberry Pi ZeroW with SPI, I2C, GPIO



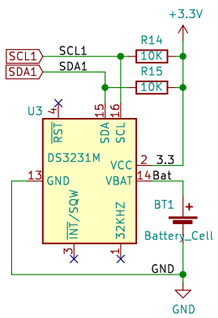
Data entry Push Button and DIP switches



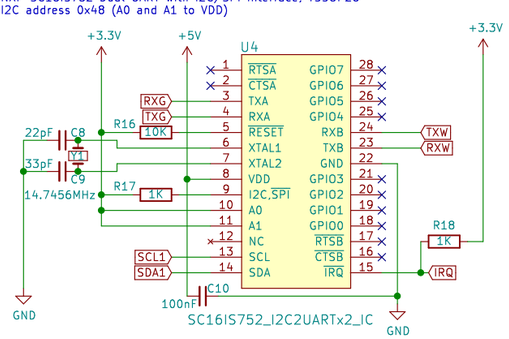
System Power 12V, DCDC to 5V, connected via Powerboost 1000C
(LiPo battery backup)



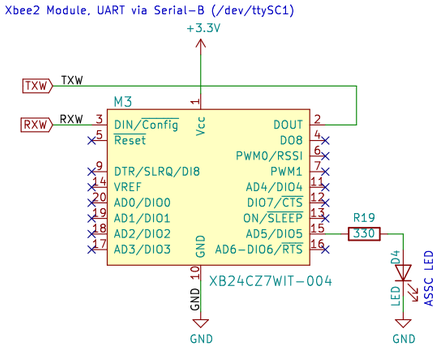
RealtTime Clock DS3231
I2C address 0x68



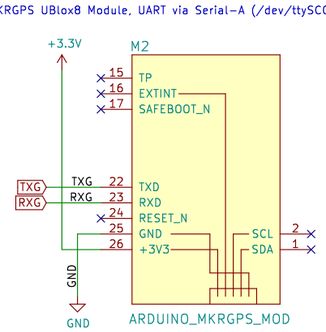
NXP SC16IS752 Dual UART with I2C/SPI interface, TSSOP28
I2C address 0x48 (A0 and A1 to VDD)



ZigBee Xbee2 Module, UART via Serial-B (/dev/ttySC1)



Arduino MKRGPS UBlox8 Module, UART via Serial-A (/dev/ttySC0)



5V Power: Raspberry Pi Zero W (150mA), TMC1640 (400mA), Adafruit 3.5" TFT (350mA)
3.3V Power: DS3231 RTC (10ma), NXP SC165752 UART (10mA), XBee S2C (60mA), MKRGPS (32mA), 2 LED (8mA) = 120mA total

Symbol:KiCad-Logo2_12mm_SilkScreen
H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole

FM4DD

Sheet: /
File: picon-one v1.0a.sch

Title: PiCon One mainboard v1.0a

Size: A3	Date: 2020-04-21	**Rev: 1**
KiCad E.D.A. kicad (5.1.5)-3		Id: 1/1