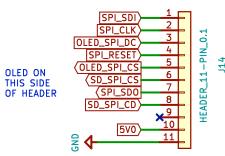




EVERYTHING ON THIS SHEET IS USER-PROVIDED OPTIONAL ADD-ONS



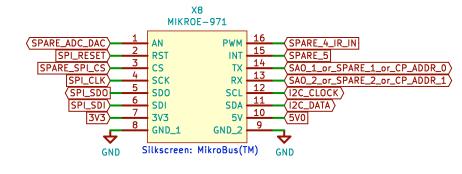
MicroSD card standalone pins shared between TFT and OLED boards.



SILKSCREEN: 3V3 ONLY, 3V3/GND sides of jumpers, SPI OLED

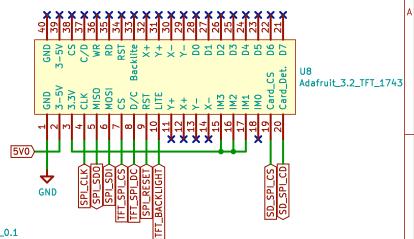
MIKRO BUS

See specifications: https://www.mikroe.com/mikrobus 8-pin 0.1 in. pitch headers spaced 0.9 in. apart



3.2" TFT LCD SPI w/MicroSD

Compatible with https://www.adafruit.com/product/1743 MicroSD card standalone pins shared between TFT and OLED boards.

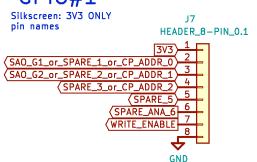


OLED TEENSYVIEW SPI

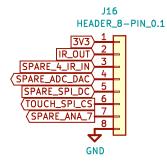
The TeensyView is designed to stack on the Teensy 3.2 Configuration: https://www.sparkfun.com/products/14048



GPIO#1

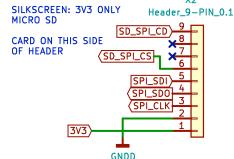


GPI0#2



MICRO SD CARD

with https://www.adafruit.com/product/4682 MicroSD card standalone pins shared between TFT and OLED boards.



OLED MONOCHROME 12C

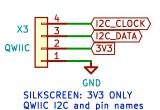
0.96" (128x64)

I2C 4-pins, ADDRESS: 0x3C (60 decimal)
Alternate is 0x3D, not 0x7A or 0x78 (wrong 8-bit)! Must choose power polarity by soldering SJS. (12C_CLOCK)

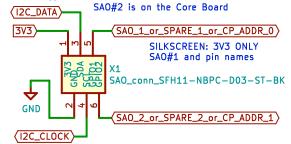
4-pin 0.1" header GND SILKSCREEN: 3V3 ONLY, 3V3/GND sides of jumpers, 12C OLED and pin names

4x holes 3/32"

QWIIC 12C



SAO #1 SUPERIOR ADD-ON



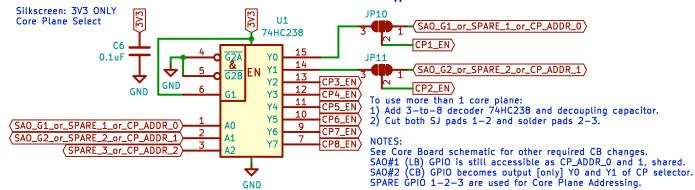
VICTOR No. 1.69bis (https://hackaday.io/project/52950-shitty-add-ons) using Sullins SFH11-NBPC-D03-ST-BK female header https://www.digikey.com/product-detail/en/sullins-connector-solutions/SFH11-NBPC-D03-ST-BK/S9717-ND/4558818

12C ADDRESS TABLE

AMBIENT LIGHT SENSOR HALL SENSOR 1 0x30 (48) 0x30 (48) 0x31 (49) 0x32 (50) 0x33 (51) 0x57 (87) HALL SENSOR 2 HALL SENSOR 3 HALL SENSOR 4 EEPROM (BOARD ID) OPTIONAL: AND!XOR IO Exp. MCP23017 0x20 (32)
AND!XOR EEPROM AT24C32r 0x50 (80)
NFC CLICK PN7120 0x50_53

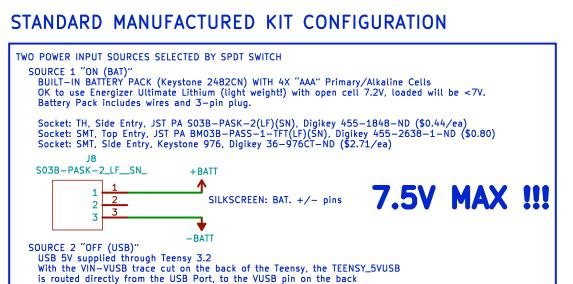
All 7-bit addresses should be greater than 0x07 and less than 0x78 (120).

CORE PLANE & CORE BOARD SAO #2 GPIO SELECT



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

Sheet: /Expansion/ File: Core64 LB v0.4 Expansion.sch Title: Core 64 - Expansion Date: 2020-08-27 Size: A Rev: 0.4 KiCad E.D.A. kicad (5.1.2-1)-1ld: 4/5



of the Teensy, over to one side of the SPDT switch. In this position the VUSB goes back to the Teensy through the 5V regulator.

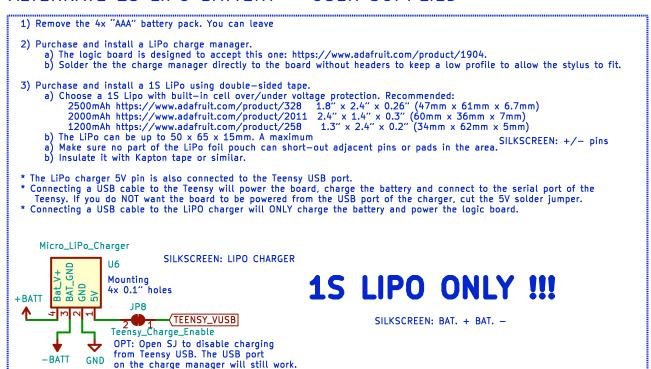
HIGH POWER

SYSTEM GROUND

DIGITAL

LOGIC GROUND

ALTERNATE 1S LIPO BATTERY - USER SUPPLIED



Date: 2020-08-27

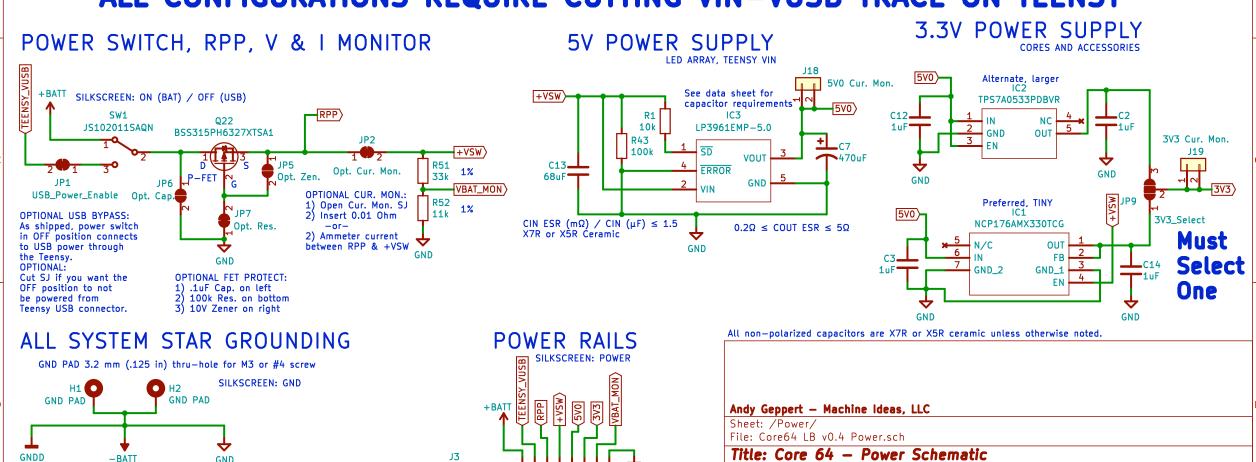
KiCad E.D.A. kicad (5.1.2-1)-1

Rev: 0.4

ld: 5/5

Size: A

*** ALL CONFIGURATIONS REQUIRE CUTTING VIN-VUSB TRACE ON TEENSY ***



Conn_01x08_Female