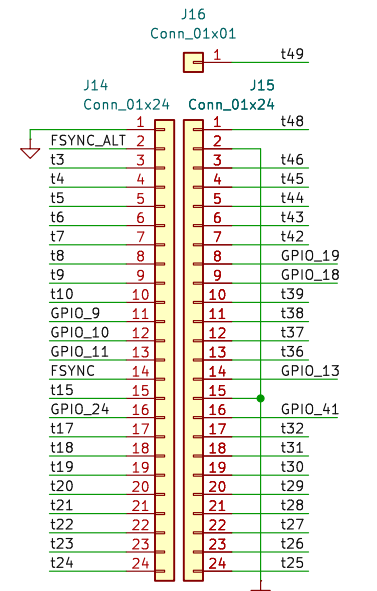


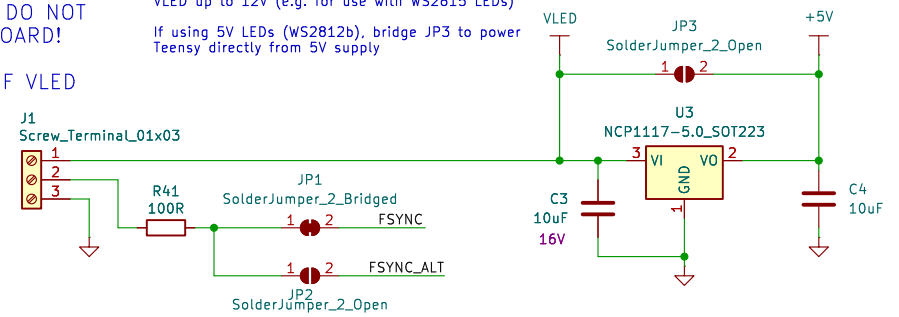
24-pin 2.54mm header sockets (and a single pin socket for VUSB), footprints stack on top of Teensy pins to manage assembly data



LEDS MUST BE POWERED EXTERNALLY. DO NOT RUN LED CURRENT THROUGH THIS BOARD!

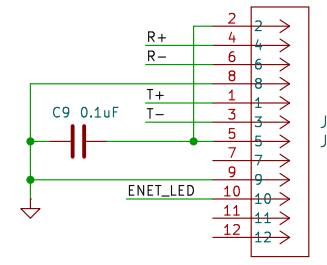
TEENSY VUSB JUMPER MUST BE CUT IF VLED IS CONNECTED!

VLED up to 12V (e.g. for use with WS2815 LEDs)
If using 5V LEDs (WS2812b), bridge JP3 to power Teensy directly from 5V supply

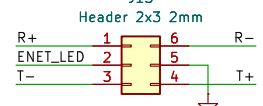


FSYNC output provided for compatibility with VideoDisplay example project. Can also be used to drive a single 3.3V-compatible LED strip with no buffer

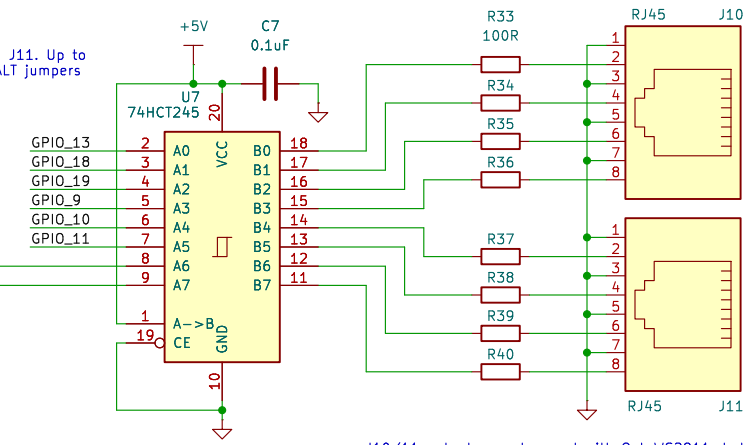
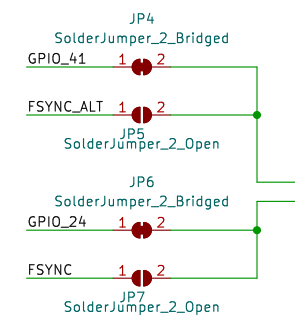
RJ45 magjack for ethernet (Teensy 4.1 only)
Must install 2x3, 2mm pitch header on Teensy



2x3 2mm header recptacle, footprint stacks on top of Teensy Ethernet pins to manage assembly data

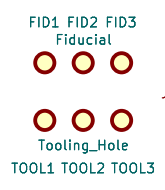
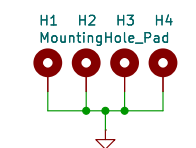


Teensy 4.0 connected to J2, J3, J6, J7, J10, and J11. Up to 24 outputs useable by shorting FSYNC, FSYNC_ALT jumpers



J10/11 outputs can be used with OctoWS2811, but takes up pins normally dedicated to I2C, SPI, analog inputs 10 and 17, and on-board LED

USB D+/- pads, USB Host still available. GPIO42-54 accessible via on-board SD card slot and QSPI pads



Unless otherwise noted, all passive components:
- Size 0603
- Capacitors rated 6.3V+
- All resistor values = 100R
- Resistors rated 1/16W+
- Tolerances not critical

Teensy 4.0/4.1 Penta-OctoWS2811 Adapter

Rev: A Date: 08 MAR 2024