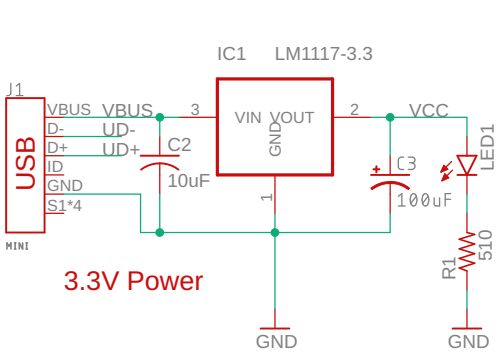
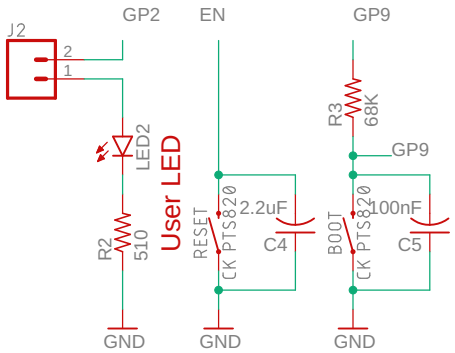
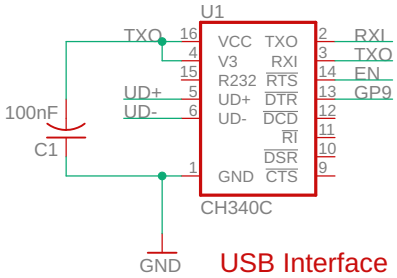
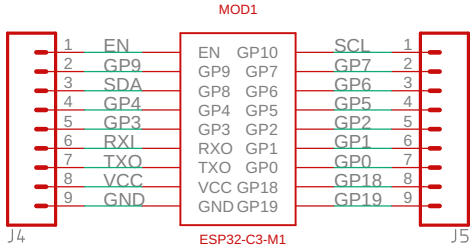
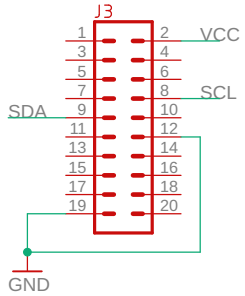




Notes
- For solderless breadboard use long header pins for either the MPU or the FPGA should be used but not both, as the insertion force required is so high there is a near certainty of breaking the board and/or folding pins.
- The reset (enable) circuit has a pullup and capacitor within the C3 module. The resistor is 4.7k and the time constant is consistent with a 100nF cap. For the pushbutton switch selected we need at least 10ms of debounce. An additional 2.2uF paralel cap will work. Likewise, the boot circuit s debounced with a small cheap capacitor and appropriate resistor.
- With reflow/vapor phase extra solder must be applied to the four pads of the USB connector to provide mechanical strength.

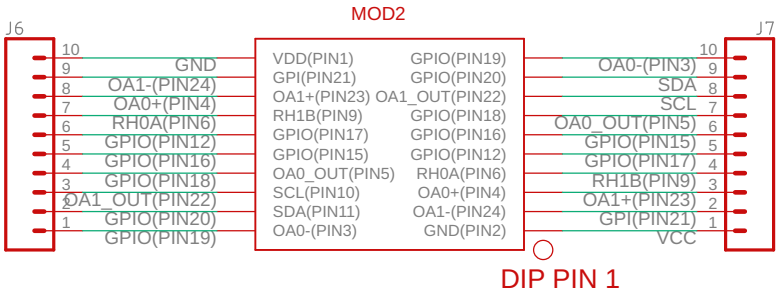




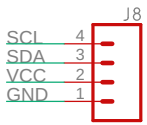


Changes from 0.70
1. Shifted female headers to end of brd, moved all headers, C3 closer to end
2. Added boot pushbutton
3. Added jumper to isolate user LED
4. Moved SDA, SCL connections to different MPU pins.

TODO
1) Update SLG47004V-DIP library or use Dialog?
2) Esthetics
3) Shorten C3 slot



FPGA PINS (SLG47004V-DIP example)



I2C for outboard programming

⊗ ⊗

open hardware

TITLE: aardvark-v0.80	Project: Aardvark
Description: TriEmbed Community Project Espressif ESP32-C3-M1(4M) plus Dialog FPGA DIP or socket adapter	
Author, license: Nick Edgington, Pete Soper CC BY-SA 2.0	REV: 0.80
Repo: https://github.com/triembed/aardvark	
Date: 4/8/22 2:16 PM	Sheet: 1/1