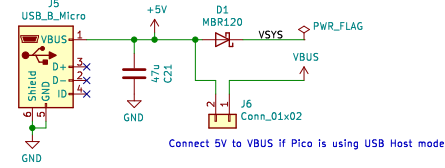


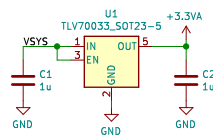
Power Options:
 1) Connect J5 to 5V USB power supply. This provides power for this board & Pico, via diode D1 to VSYS.
 2) Connect USB power supply to Pico directly. VSYS will then power this board.
 N.B. If USB Host functionality is required on Pico, then use option 1, and also fit Jumper J6 to provide VBUS for Pico.

5V Power In

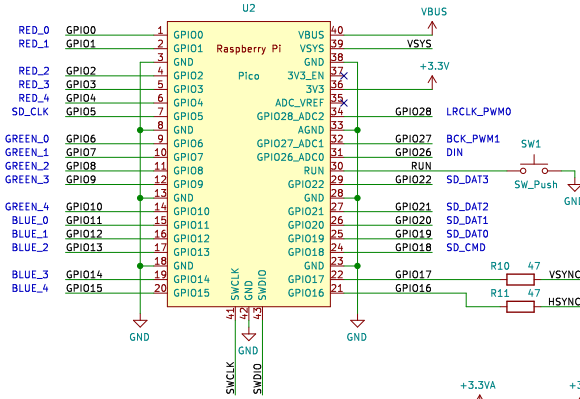


Connect 5V to VBUS if Pico is using USB Host mode

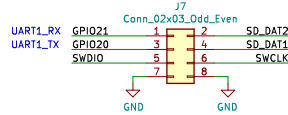
Audio Power



Pico

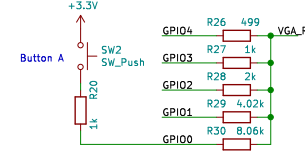


UART / 4-bit SD Selector & Debug

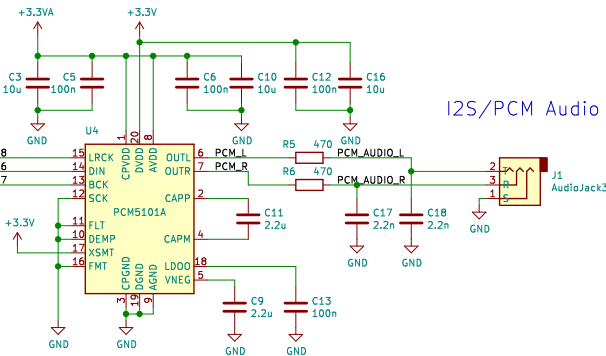
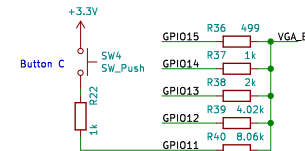
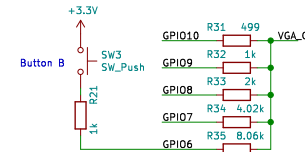
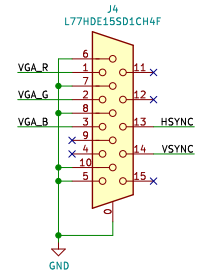


For 4-bit SD Card operation, place jumpers between 1-2 and 3-4. To use as a UART, remove the jumpers and attach a suitable UART device. Ensure TX is connected to RX and vice versa.

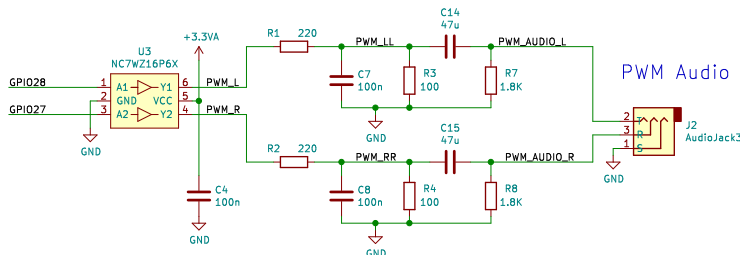
VGA 'DAC'



VGA

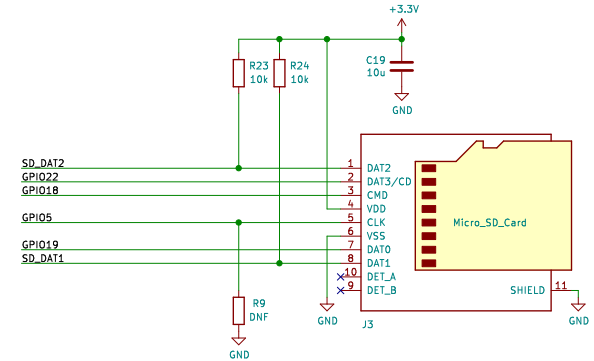


I2S/PCM Audio



PWM Audio

Micro SD Card



- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

Audio Options:
 Either I2S/PCM audio or PWM audio may be used, but NOT both at the same time, as they share the same I/Os. If PWM is to be used, the Pico software must be built as such, and similarly with I2S/PCM.

(c) Raspberry Pi 2020

Raspberry Pi

Sheet: /

File: pico_vga_sd_aud.sch

Title: RPI-PVSA VGA, SD Card & Audio Demo Board for Pico

Size: A3

Date: 2020-09-04

Rev: REV2

KiCad E.D.A. kicad (5.1.6)-1

Id: 1/1