

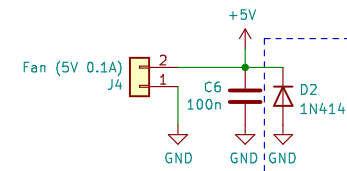
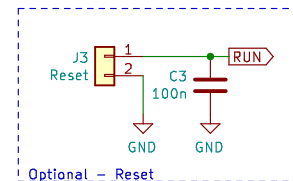
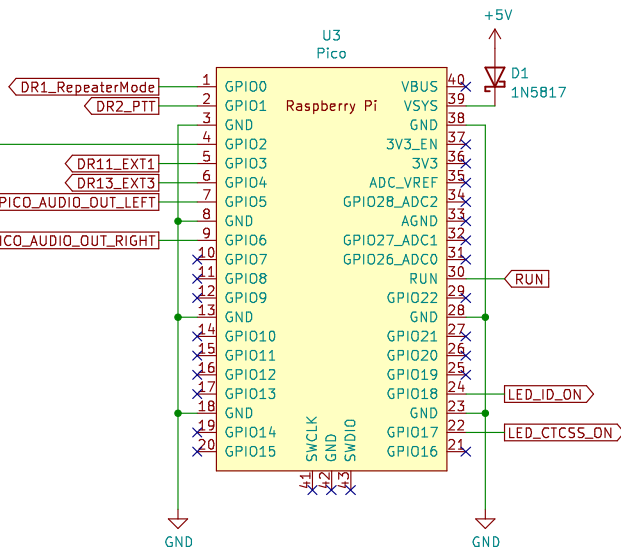
DR-x 15 Pin Description

- 01: + EXT I/O - Repeater Mode - L to set remote mode
- 02: + EXT PTT - L to set PTT ON
- 03: + CTCSS/DCS - L Indicates tone detected
- 04: + SQL DET - L Indicates Squelch open (Carrier Detected)
- 05: + GND - Ground
- 06: + TONE IN - Input tone (600 ohms/500mVpp)
- 07: + AF IN - External audio Input (600 ohms/1.5Vpp)
- 08: - DISC OUT - Discriminator out (Not used)
- 09: - AF OUT - RX Audio out before squelch
- 10: + GND - Ground
- 11: + EXT 1 - To set Repeater modes when in remote mode
- 12: - EXT 2 - To set Repeater modes when in remote mode
- 13: + EXT 3 - L to set RX Tone to off
- 14: - EXT 4 - L to set TX Tone to off
- 15: + VCC - 13.8V 3A

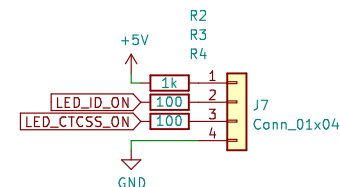
EXT1 and EXT2 will only work if REMOTE is set as on in the repeater menu and not by the PIN 1 - Remote.

EXT2 and EXT3 need testing

D1 Schottky
Can be 1N5817, 1N5818 or 1N5819



Must be improved as noise fan appears at audio line
Can be controlled via PWM and disabled when ID ON



LED OUTPUTS

- 1 - D1 - LED POWER ON
- 2 - D2 - LED ID ACTIVE
- 3 - D3 - LED RX CTCSS

resistor values, same brightness (5/3.3V)

ARM - Associação Radioamadores do Minho - CS1ARM - CS5ARM

Raspberry Pi Pico YAESU DR-x Repeater Voice ID Project

#pragma | CT1ENQ

Sheet: /

File: voice_id.kicad_sch

Title: PicoIDx

Size: A4 Date: 2021-12-28

KiCad E.D.A. kicad 6.0.7-1.fc36

Rev: 1.1

Id: 1/1