

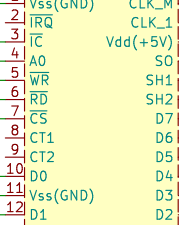
Yamaha OPM 4 operator FM synthesizer

J3 Debug

- 1 console TX 115200 baud 8-N-1
- 2 console RX
- 3 console GND

U3

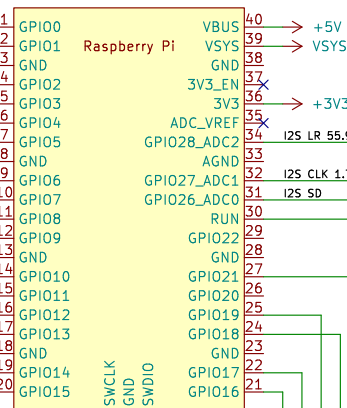
YM2151
OPM



- 3.5795 MHz
- 1.7898 MHz

- R8
- R7
- R6
- R5
- R4
- R3
- R2
- R1

U1
Pico 2 (RP2350)



- SWCLK
- GND
- SWDIO
- J4 Debug

- I2S CLK
- I2S SDA
- MIDI 31250 baud 8-N-1

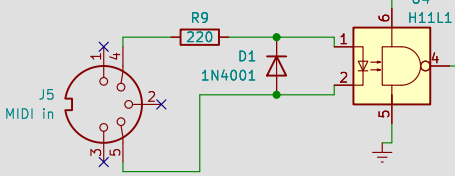
Optional LCD display

U5
Waveshare 16x2 I2C LCD (AIP3106BL)
Waveshare

XXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXX

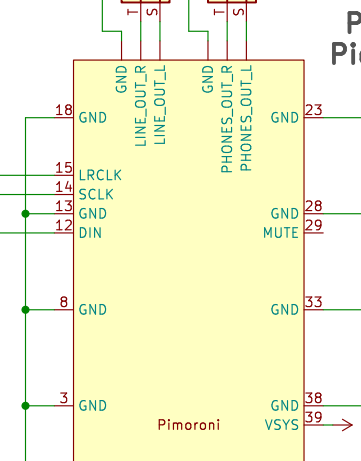
- VCC
- GND
- SCL
- SDA

Optional Physical MIDI In



PIMORONI Pico Audio I2S DAC

J2 Line out
J1 Phones out



Pimoroni
Pico-Audio
U2

<https://github.com/AnotherJohnH/picoX21H>

Sheet: /
File: picoX21H.kicad_sch

Title: **picoX21H**

Size: A4
KiCad E.D.A. eeschema 7.0.7

Date: 2025-04-13

Rev: **0.02**

Id: 1/1