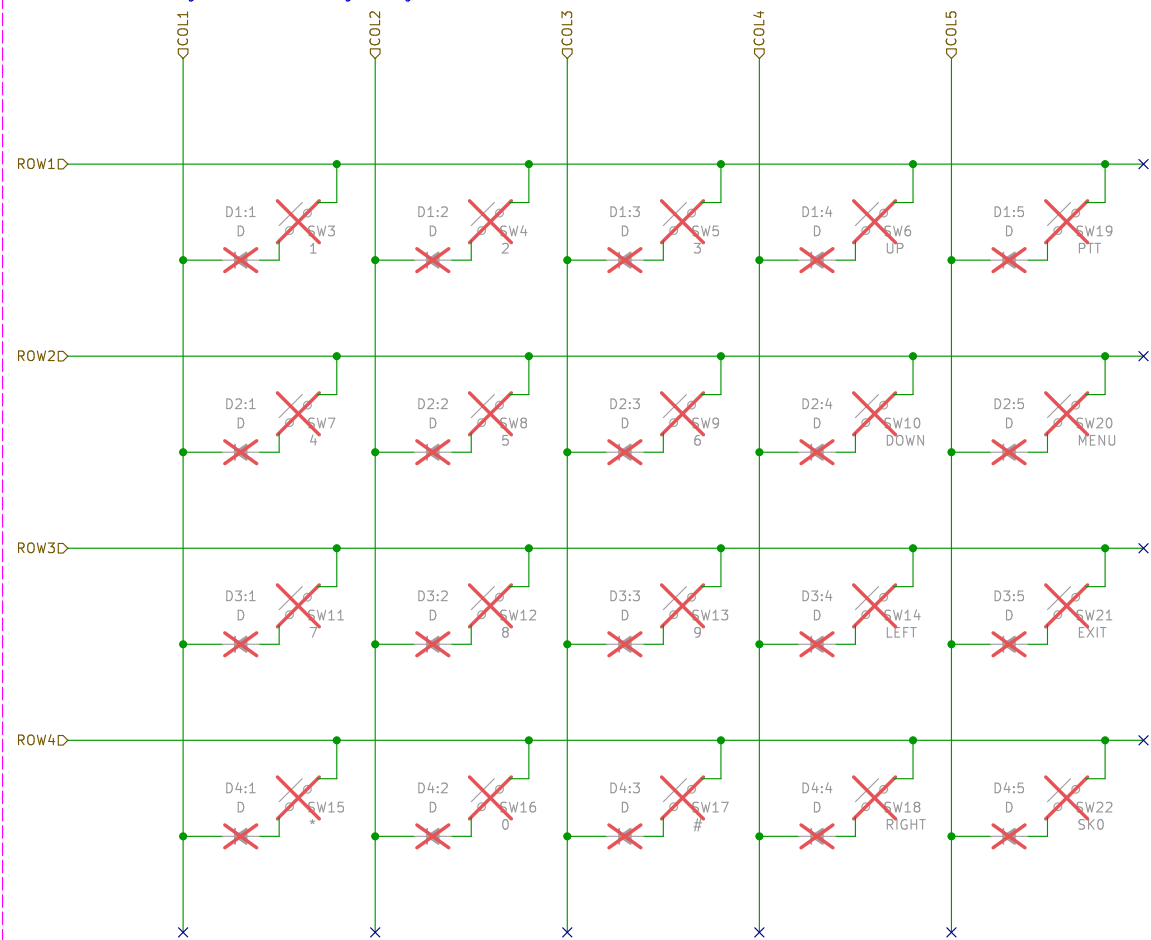
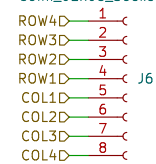


Keypad Matrix
Application Note: The ROW pins get pulled up by the GPIO expander, with one ROW being pulled down.
The scanner relies on the COL pins being read in as a logic swing to low.
Remarked as Domino Logic, a rail-to-rail logic swing occurs.



Keypad Daughterboard

Conn_01x08_Socket



Sheet: /Keypad/
File: keypad.kicad_sch

Title:

Size: A4

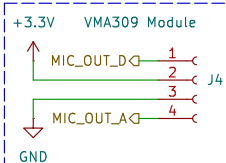
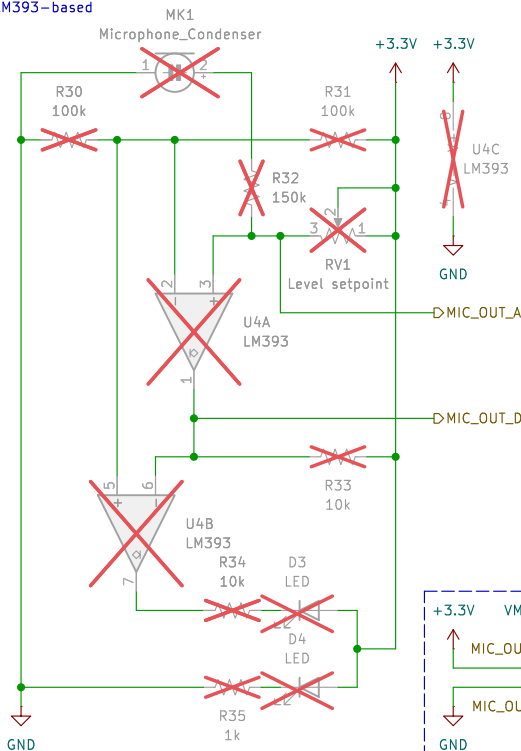
Date:

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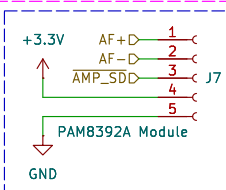
Id: 4/6

Microphone Module LM393-based

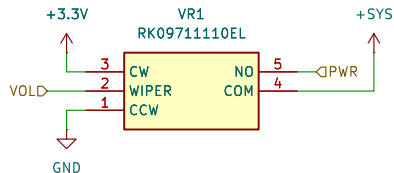


Received Audio Digitizer AF: RX audio from radio module

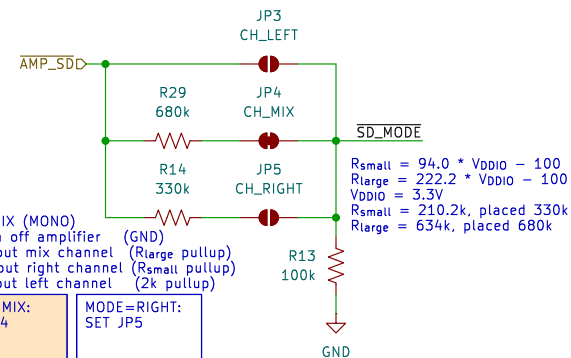
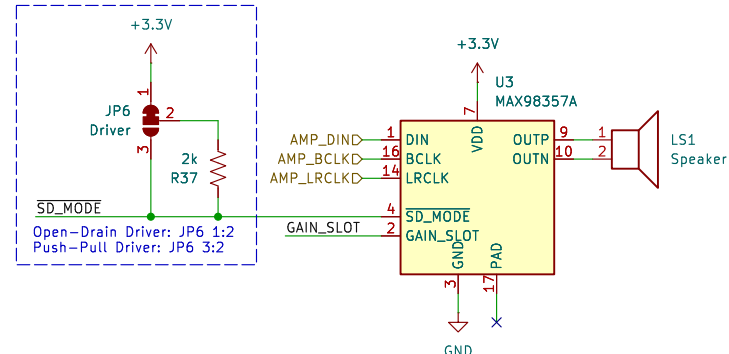
AF-☒
AF+☒



Volume Control Also acts as PWR



Digital Audio Amplifier over I2S0

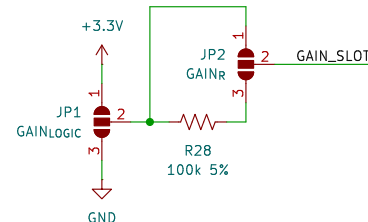


CHANNEL MODE SELECT: MIX (MONO)
SD < 0.16V = Turn off amplifier (GND)
SD 0.16V to 0.77V = Output mix channel (Rlarge pullup)
SD < 0.16V = Output right channel (Rsmall pullup)
SD > 1.4V = Output left channel (2k pullup)

MODE=LEFT: SET JP3
MODE=MIX: SET JP4
MODE=RIGHT: SET JP5

GAIN SLOT SELECT: GAIN=9dB

GAIN=15dB: GAINLogic = LOW GAINr = 100k JP1 3:2, JP2 3:2
GAIN=12dB: GAINLogic = LOW GAINr = 0R JP1 3:2, JP2 1:2
GAIN=9dB: GAINLogic = NC GAINr = 0R JP1 NC, JP2 NC
GAIN=6dB: GAINLogic = HIGH GAINr = 0R JP1 1:2, JP2 1:2
GAIN=3dB: GAINLogic = HIGH GAINr = 100k JP1 1:2, JP2 3:2



Sheet: /Audio Subsystem/
File: audio_subsystem.kicad_sch

Title:

Size: A4 Date:

KiCad E.D.A. 9.0.1

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Id: 5/6

