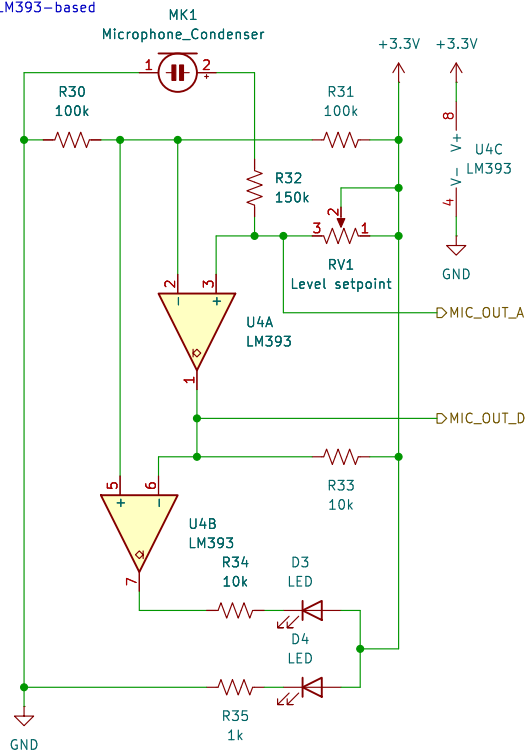
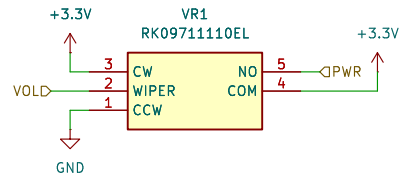


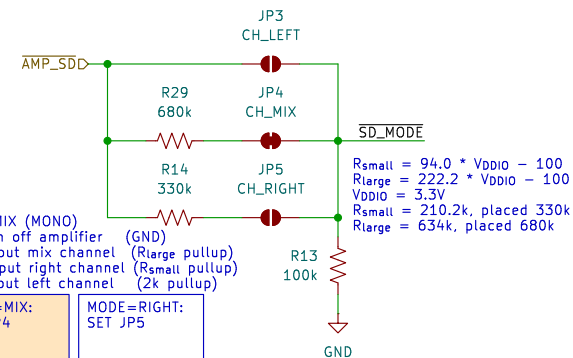
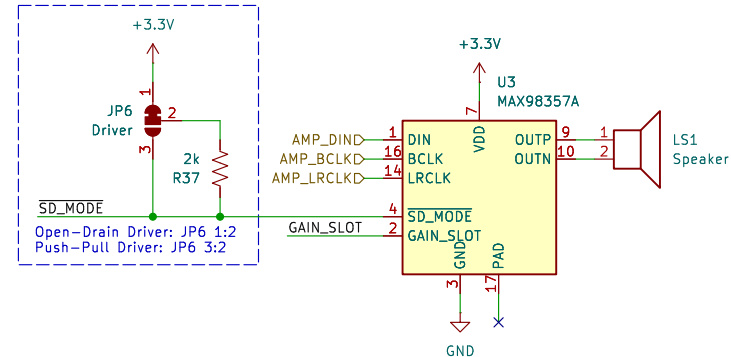
Microphone Module LM393-based



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

$R_{small} = 94.0 \cdot V_{DDIO} - 100$
 $R_{large} = 222.2 \cdot V_{DDIO} - 100$
 $V_{DDIO} = 3.3V$
 $R_{small} = 210.2k$, placed 330k
 $R_{large} = 634k$, placed 680k

Received Audio Digitizer AF: RX audio from radio module

AF-
AF+

GAIN SLOT SELECT: GAIN=9dB

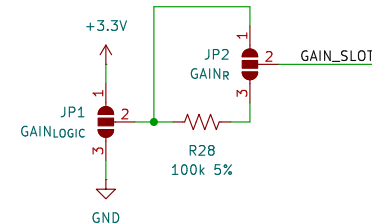
GAIN=15dB:
GAINLOGIC = LOW
GAINR = 100k
JP1 3:2, JP2 3:2

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
KiCad E.D.A. 8.0.7

Date:

Rev:

Id: 5/6

