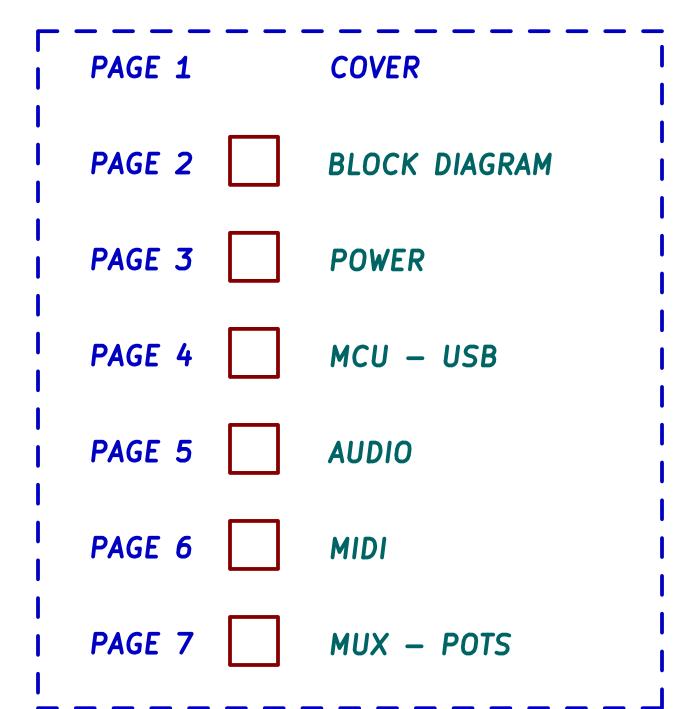
ESP32 SYNTH



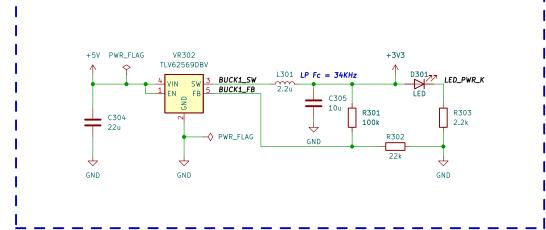
MOUNTING HOLES H105 H106 H107

Joël Ucedo		
Sheet: /		
File: ESP32 s	ynth.kicad_sch	
Title: ESP3	32 SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A.	kicad (6.0.7)	ld: 1/7
	7	8

BLOCK DIAGRAM Joël Ucedo Sheet: /BLOCK DIAGRAM/ File: block_diagram.kicad_sch Title: ESP32 SYNTH

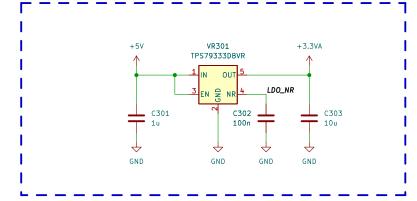
POWER

+5V > +3V3 DIGITAL



V(out) = 0.6*(1+100k/22k) = 3.327V

+5V > +3V3 ANALOG

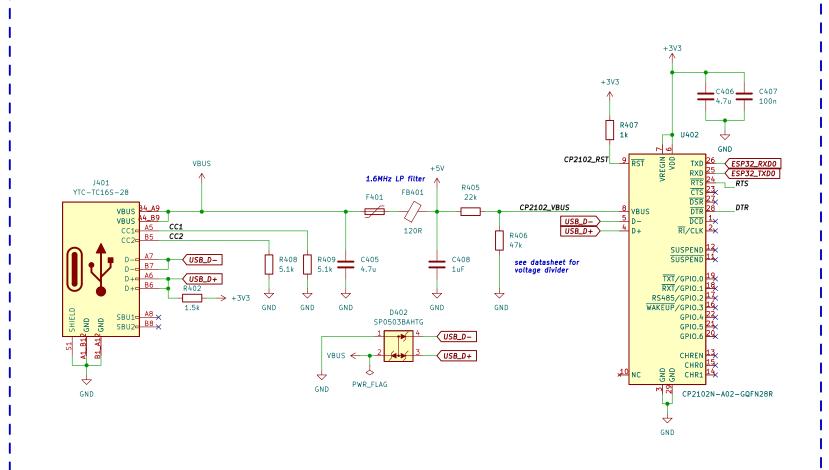


Only for analog audio circuit

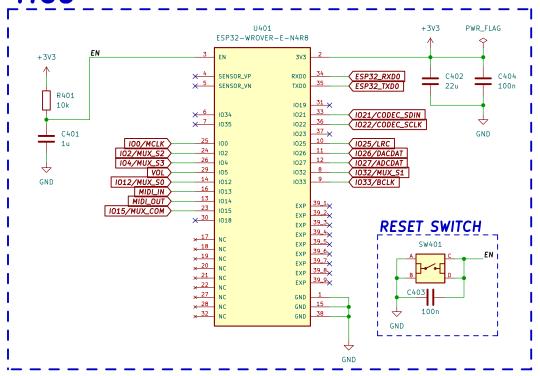
Joël Ucedo		
Sheet: /POWER/	,	
File: power.kicad	i_sch	I
Title: ESP32	SYNTH	
Size: A4	Date: 2023-06-02	Rev: 0
KiCad E.D.A. ki		ld: 3/7

MCU - USB

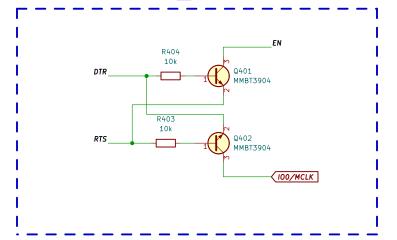
USB-C CIRCUIT & USB > UART CONVERTER



MCU



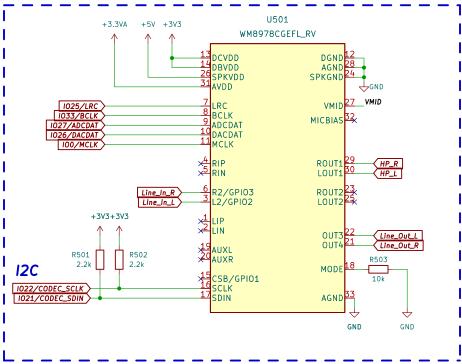
AUTO BOOT_PROGRAM



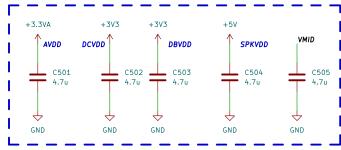
Joël Ucedo		
Sheet: /MC		
File: mcu_u	sb.kicad_sch	
Title: ES	P32 SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A	. kicad (6.0.7)	ld: 4/7
	7	8

AUDIO

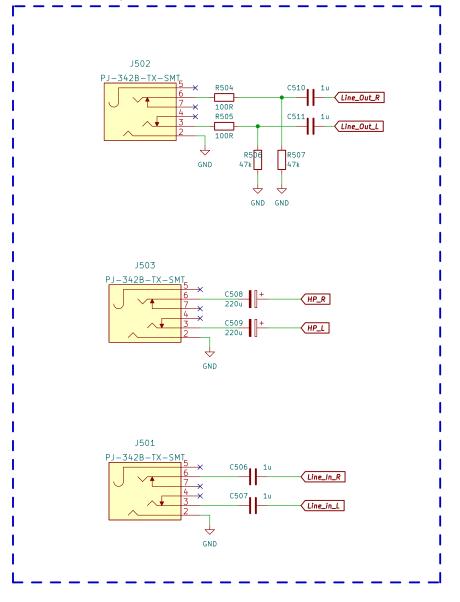
AUDIO CODEC



DECOUPLING

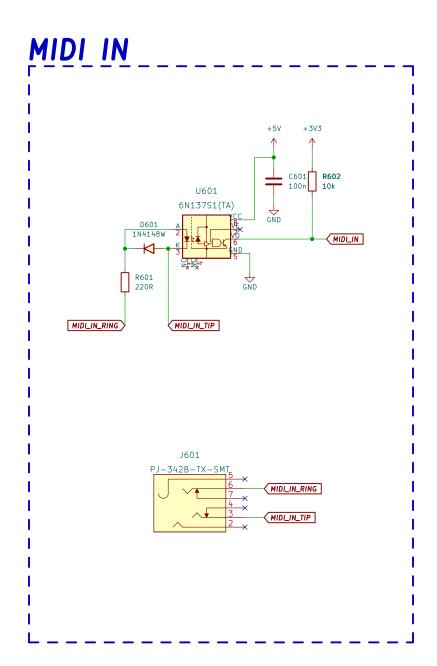


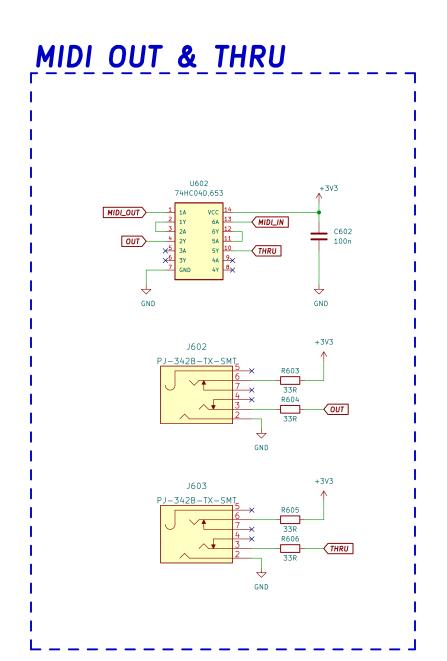
LINE IN/OUT & HEADPHONE



Joël Ucedo		
Sheet: /AUDIO/		
File: audio.kicad_sch		
Title: ESP32	SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. kicad (6.0.7)		ld: 5/7

MIDI

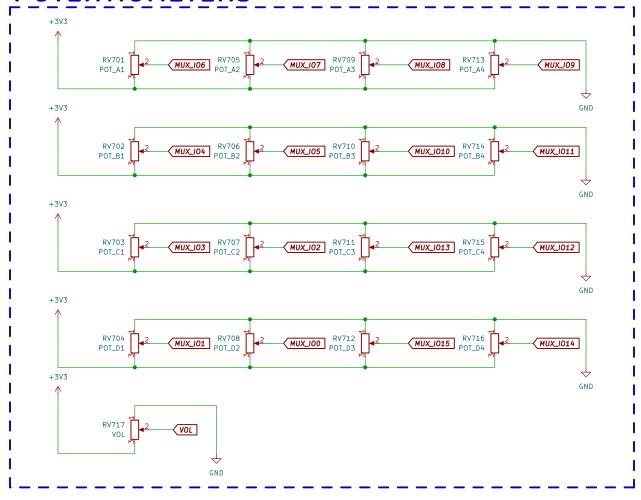




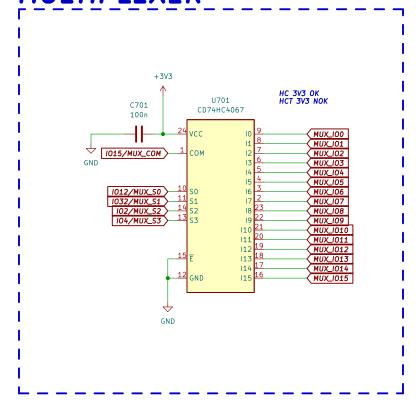
Joël Ucedo		
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Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. kid	ad (6.0.7)	ld: 6/7

MUX - POTS

POTENTIOMETERS



MULTIPLEXER



Joël Ucedo		
Sheet: /MUX -	POTS/	
File: mux_pots.k	icad_sch	
Title: ESP32	SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. kid	ad (6.0.7)	ld: 7/7
	7	0