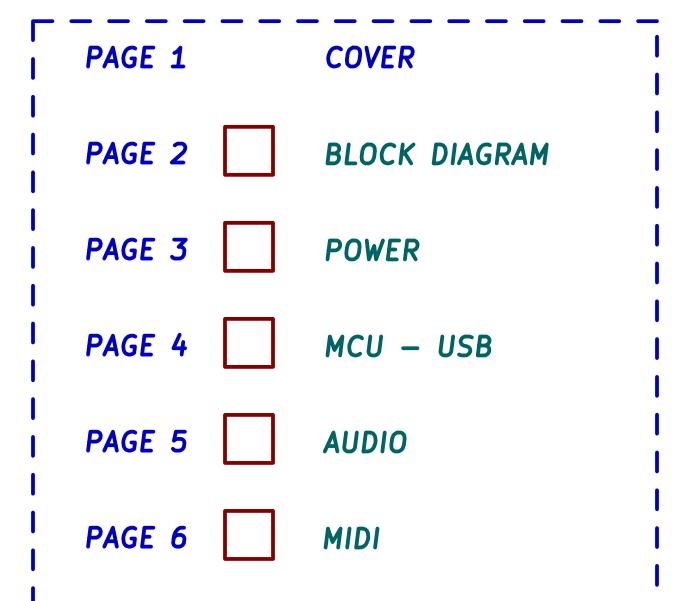
# ESP32 SYNTH



MUX - POTS

# **MOUNTING HOLES**

PAGE 7

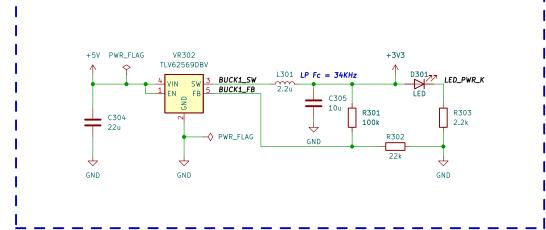
O H101	H102	H103	H104
			4

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

# **BLOCK DIAGRAM** Joël Ucedo Sheet: /BLOCK DIAGRAM/ File: block\_diagram.kicad\_sch Title: ESP32 SYNTH

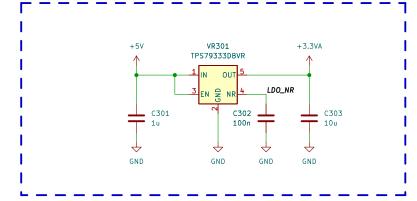
# **POWER**

### +5V > +3V3 DIGITAL



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

### +5V > +3V3 ANALOG

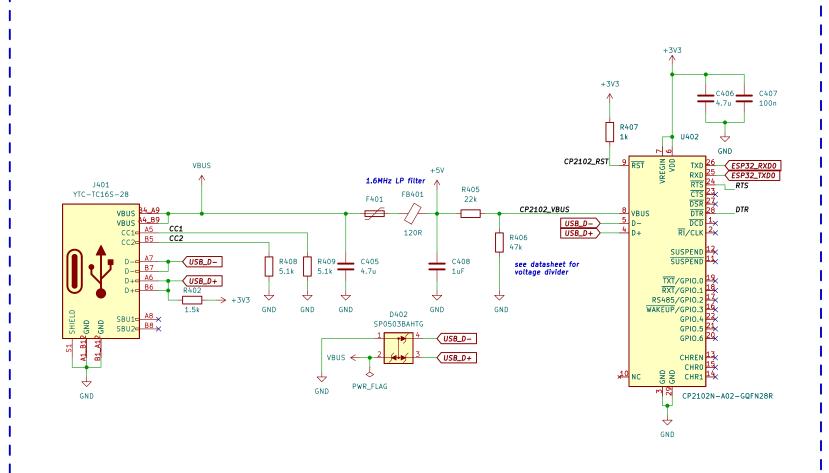


Only for analog audio circuit

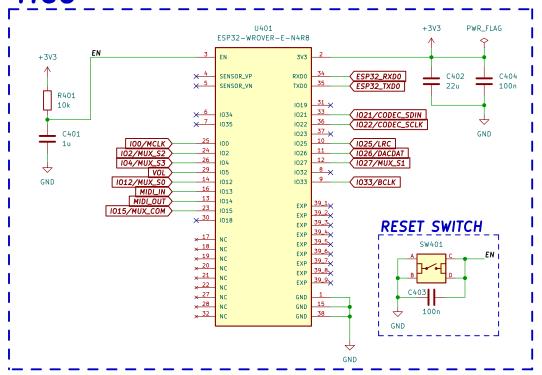
Joël Ucedo		
Sheet: /POWER/	,	
File: power.kicad	i_sch	I
Title: ESP32	SYNTH	
Size: A4	Date: 2023-06-02	Rev: 0
KiCad E.D.A. ki		ld: 3/7

# MCU - USB

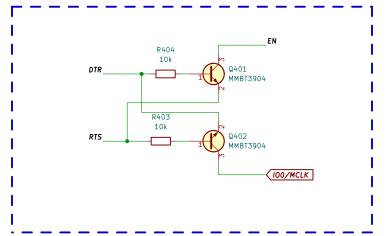
### USB TO UART CONVERTER



### MCU



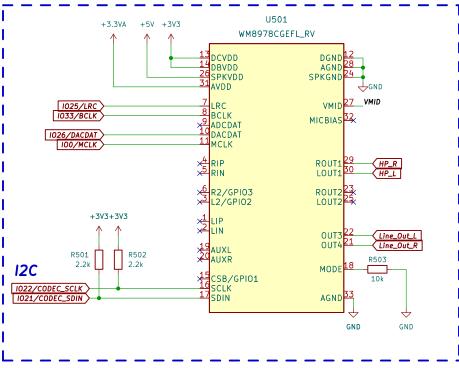
### AUTO BOOT\_PROGRAM



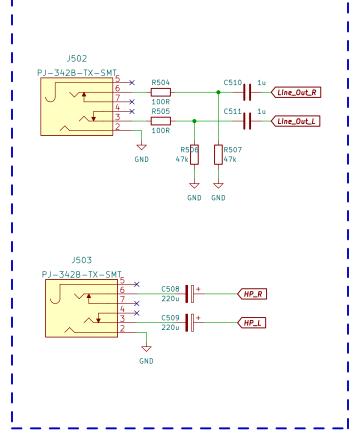
Joël Ucedo		
Sheet: /MCU -	USB/	
File: mcu_usb.ki	cad_sch	
Title: ESP32	SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. kid	ad (6.0.7)	ld: 4/7
	7	8

# **AUDIO**

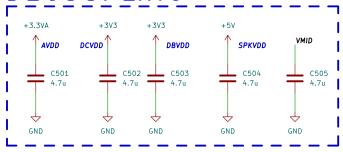
### **AUDIO CODEC**



## LINE OUT & HEADPHONE

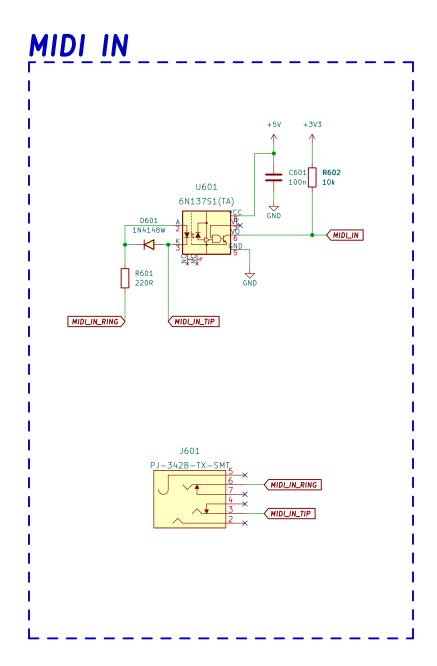


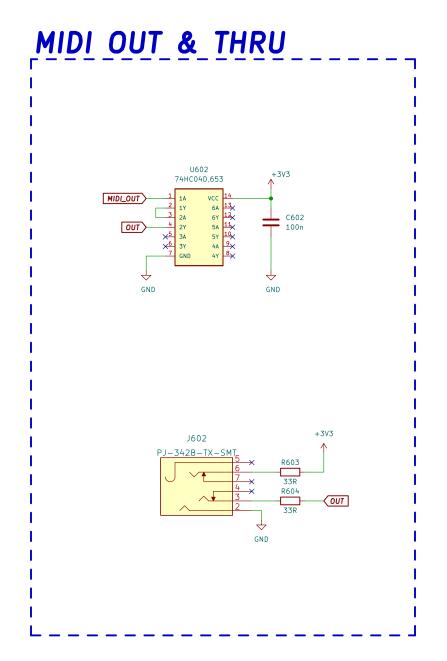
### **DECOUPLING**



Joël Ucedo		
Sheet: /AUD File: audio.k		
Title: ESF	P32 SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A.	kicad (6.0.7)	ld: 5/7
	7	8

**MIDI** 

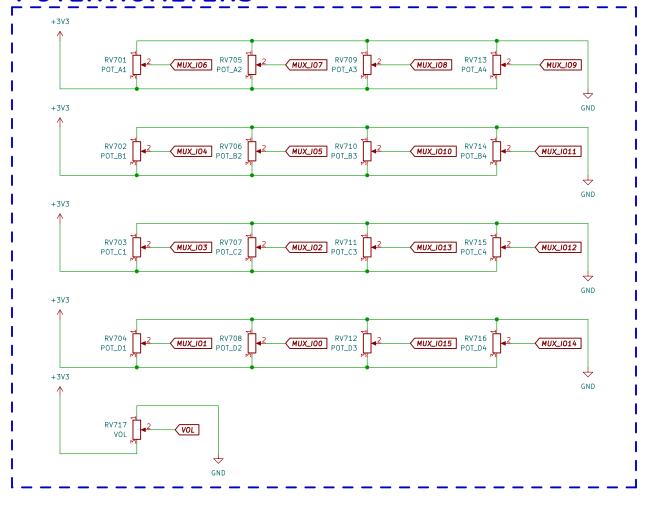




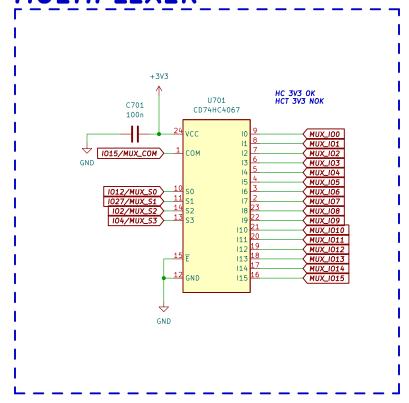
Joël Ucedo		
Sheet: /MIDI/		
File: midi.kicad_		
Title: ESP32	2 SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. ki	cad (6.0.7)	ld: 6/7
	7	8

# MUX - POTS

### **POTENTIOMETERS**



### **MULTIPLEXER**



Joël Ucedo

Sheet: /MUX - POTS/
File: mux\_pots.kicad\_sch

Title: ESP32 SYNTH

Size: A3 Date: 2023-06-02 Rev: 0

KiCad E.D.A. kicad (6.0.7)