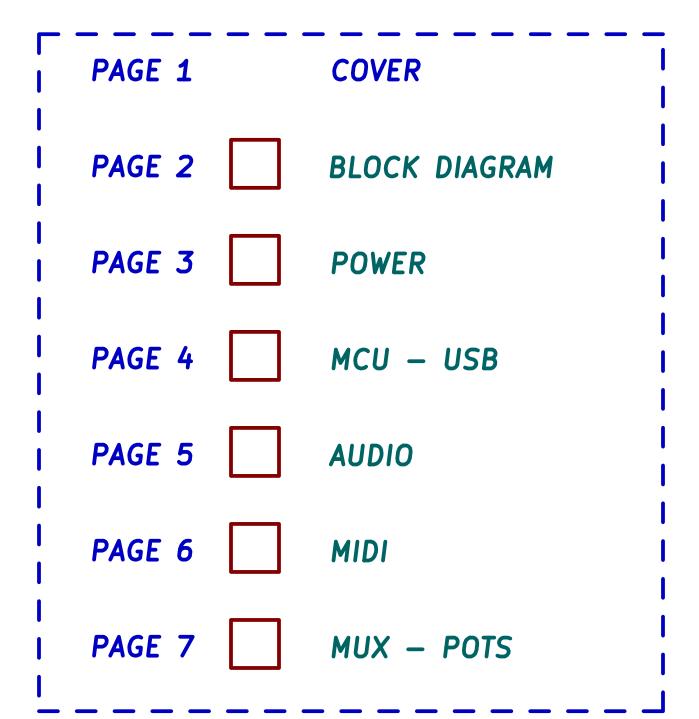
SOLAR AUDIO - Little Sun



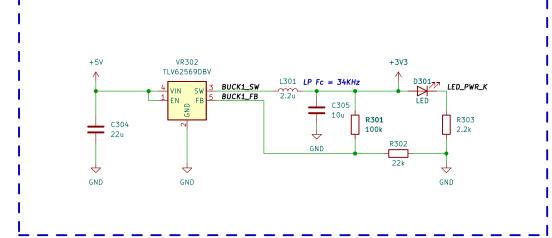
MOUNTING HOLES O H101 O H102 O H103

Joël Ucedo		
Sheet: / File: ESP32	synth.kicad_sch	
Title: ESF	P32 SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A.	kicad (6.0.7)	ld: 1/7

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

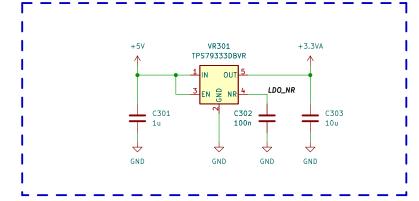
POWER

+5V > +3V3 DIGITAL



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

+5V > +3V3 ANALOG

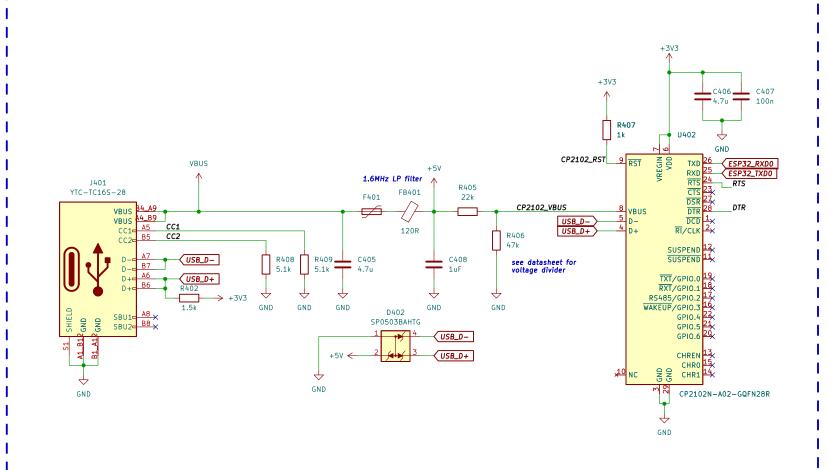


Only for analog audio circuit

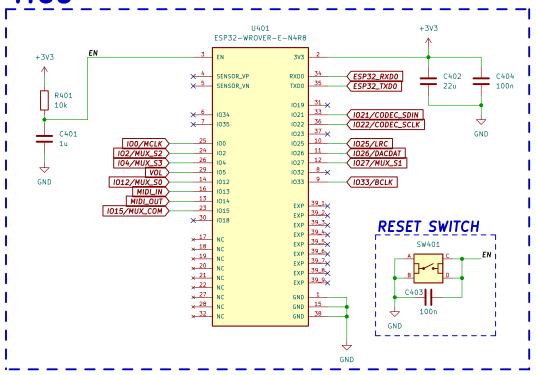
Joël Ucedo			
Sheet: /POWER	?/		7
File: power.kica	ad_sch		0
Title: ESP3	2 SYNTH		1
Size: A4	Date: 2023-06-02	Rev: 0	7
KiCad E.D.A. k	ricad (6.0.7)	ld: 3/7	1
1.			ے۔

MCU - USB

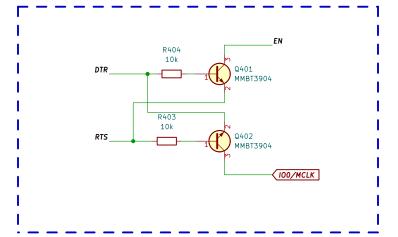
USB TO UART CONVERTER



MCU



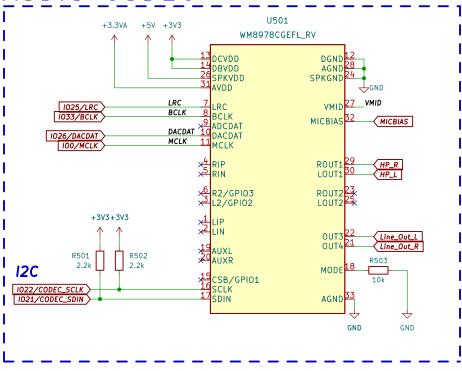
AUTO BOOT_PROGRAM



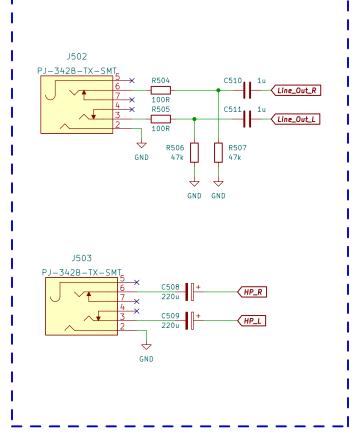
Joël Ucedo		
Sheet: /MCU -	USB/	
File: mcu_usb.ki	cad_sch	
Title: ESP32	SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. kid	ad (6.0.7)	ld: 4/7
	7	8

AUDIO

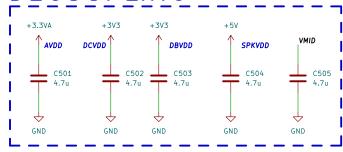
AUDIO CODEC



LINE OUT & HEADPHONE

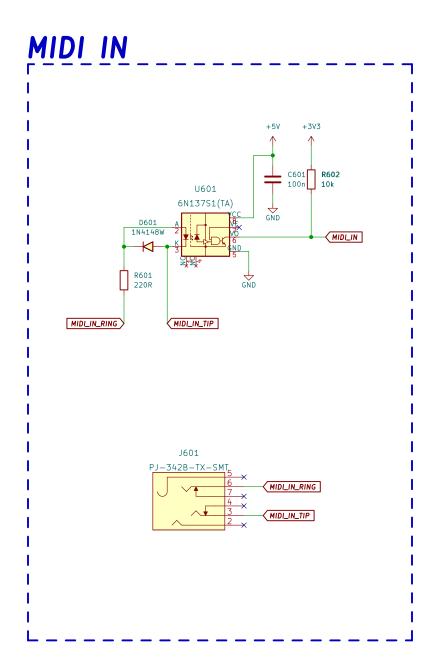


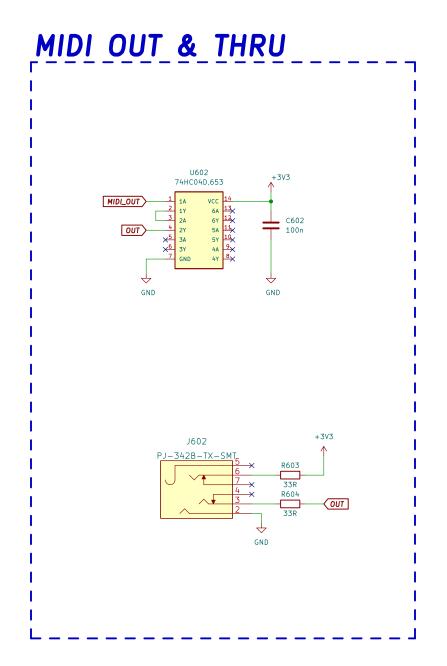
DECOUPLING



Joël Uc	edo		
Sheet: /	/AUDIO/ dio.kicad	sch	
		SYNTH	
Size: A3	i	Date: 2023-06-02	Rev: 0
KiCad E	.D.A. kid	ad (6.0.7)	ld: 5/7
		7	8

MIDI

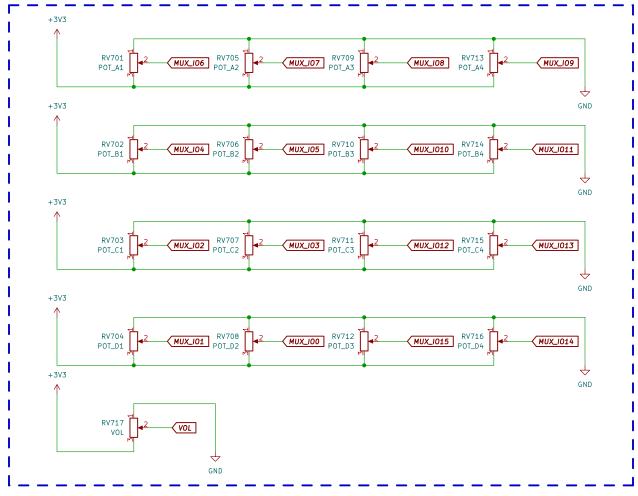




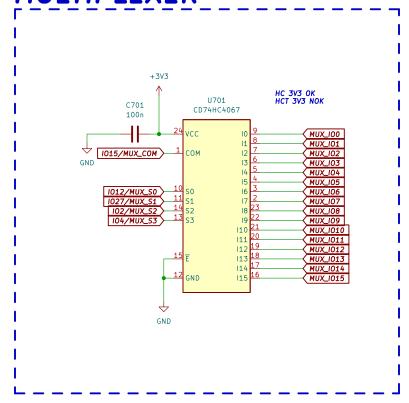
Joël Ucedo		
Sheet: /MIDI/		
File: midi.kicad_		
Title: ESP32	2 SYNTH	
Size: A3	Date: 2023-06-02	Rev: 0
KiCad E.D.A. ki	cad (6.0.7)	ld: 6/7
	7	8

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)