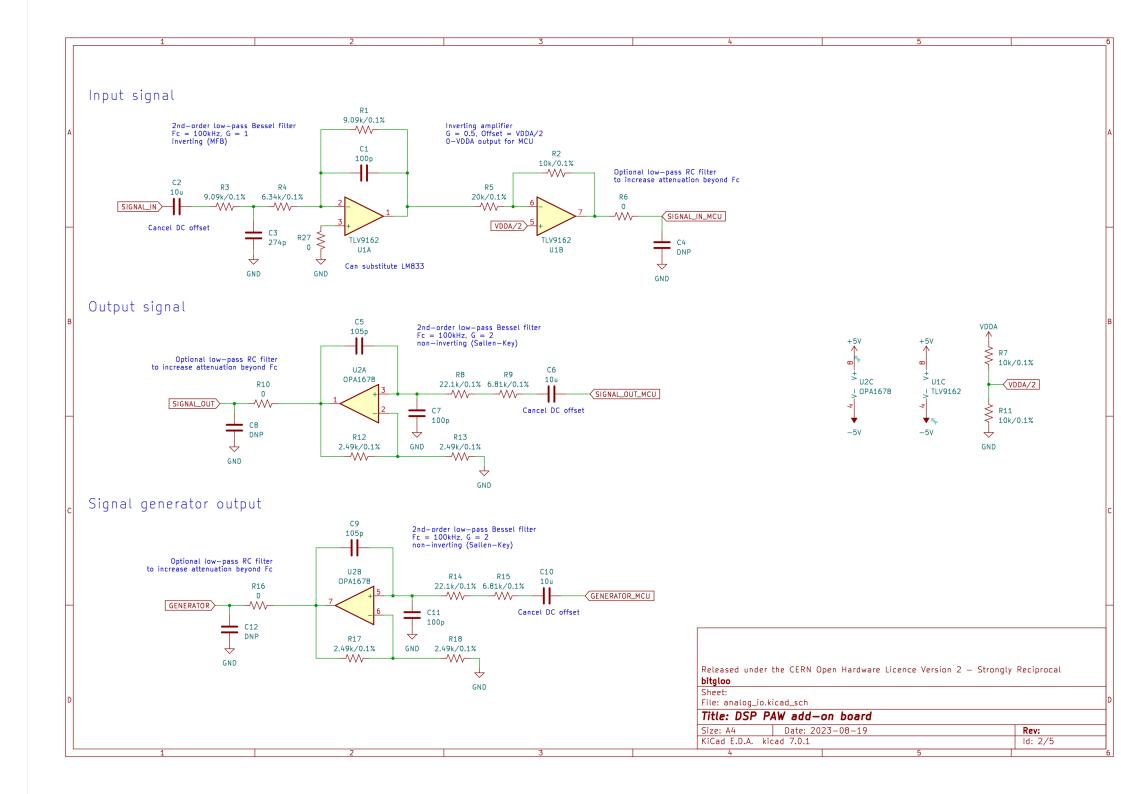
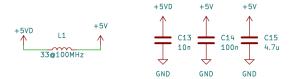
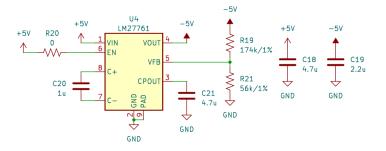
	1	2	3		4		5	
	Analog IO	_	-					
				Bill of Materials no				
				Manufacturer part r	numbers were chosen first, and titutions that were chosen to m	l are preferred. LCSC part natch the original compon	numbers ents as	
	File: analog_io.kicad_sch							
				or higher. — MAX6106 refer — TLV9162 replac	ces are X5R or X7R, +/- 10% ence replaced with REF3020. ced with LM833 (used in previc tiometers replaced with 100kOF	ous design iteration).		
	Power regulation			- 10kOhm potent	tiometers replaced with 100kOr	nm versions.		
	File: power_regulation.kicad_sch							
	Board connectors							
В								
	File: board_connectors.kicad_sch							
	User 10							
Н								
	File: user_io.kicad_sch							
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				Re bi	eleased under the CERN O	pen Hardware Licence	Version 2 — Strongly	Reciprocal
D				SI	heet: le: DSP PAW add—on boar	d.kicad_sch		
				T	itle: DSP PAW add—	on board		
				Si Ki	iCad E.D.A. kicad 7.0.1	23-08-19		Rev: ld: 1/5
	1	2	3		4		5	



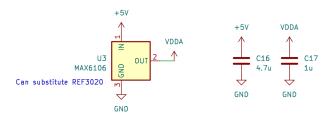
Noise filtering for +5V from VBUS



+5V inverter



Analog voltage reference



Supply test points



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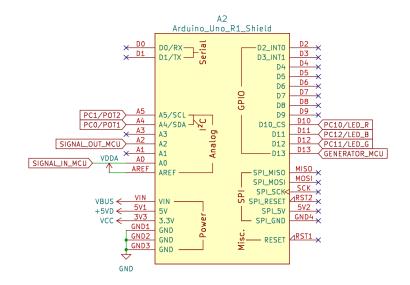
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File: power_regulation.kicad_sch

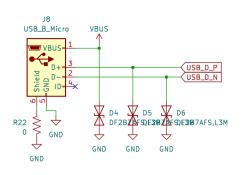
Title:	DSP	PAW	add-on	board

Size: A4	Date: 2023-08-19	Rev:
KiCad E.D.A.	kicad 7.0.1	ld: 3/5

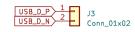
Arduino shield connector



USB to host computer

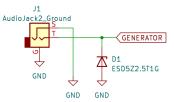


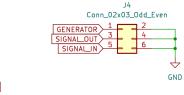
to NUCLEO board

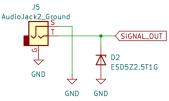


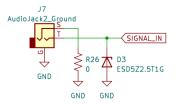
External signal connectors

External signals are to be within +/-2V.









Previous design fed SIGNAL_IN_GROUND to negative op.amp. Input to cancel Doffset. Remove R26 and R27 (and add wire) to revert to that design.

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Sheet

File: board_connectors.kicad_sch

Title:	DSP	PAW	add-on	board	

 Size: A4
 Date: 2023-08-19
 Rev:

 KiCad E.D.A. kicad 7.0.1
 Id: 4/5

