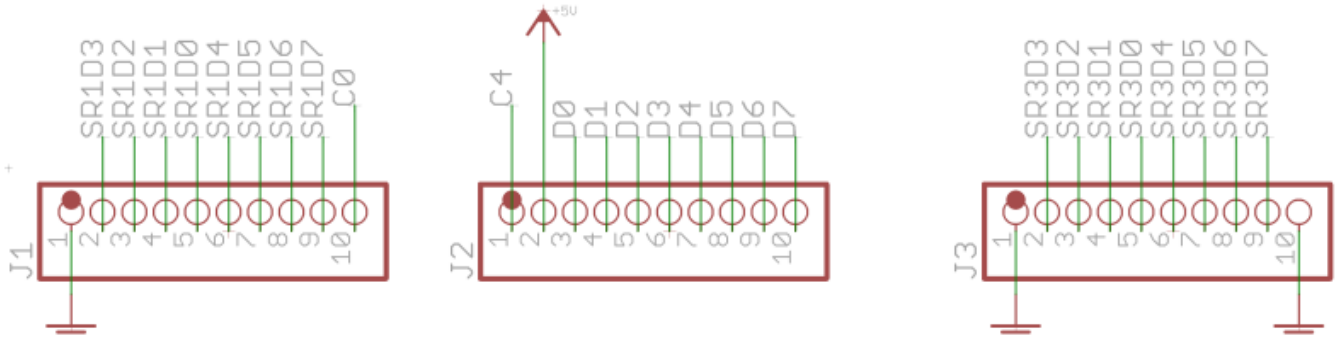
SEQv4+ ENC-PLATE

Eight encoders with switch functions connect to the SRIO chain on the le MEC board below. The PCB also holds Matias switches.

Note that two sets are required for a SEQv4+ build.

Schematic

The encoders are directly connected through the headers to DIN pins in the stacked PCB. The switches are connected to the matrix through diodes.



Part	DIN SR	DIN pins/column	Cathode row
EN1	1	0,1	–
EN2	1	2,3	–
EN3	1	4,5	–
EN4	1	6,7	–
EN5	3	0,1	–
EN6	3	2,3	–
EN7	3	4,5	–
EN8	3	6,7	–
SW1	2	D0	C0
SW2	2	D1	C0
SW3	2	D2	C0
SW4	2	D3	C0
SW5	2	D4	C1
SW6	2	D5	C1
SW7	2	D6	C1
SW8	2	D7	C1

BOM

Note: two sets are required per SEQv4+!

Type	Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
Diodes									
	8	1N4148	THT						
Encoder									
	8	STEC12				STEC12E08			
Headers									
	3	1*10	through-board	MDF7-10S-2.54DSA(55)					
Hardware									
	2	M2 washer	3mm?						
	9	M3 washer	3mm?						
	8	knobs	TBD						

Versions

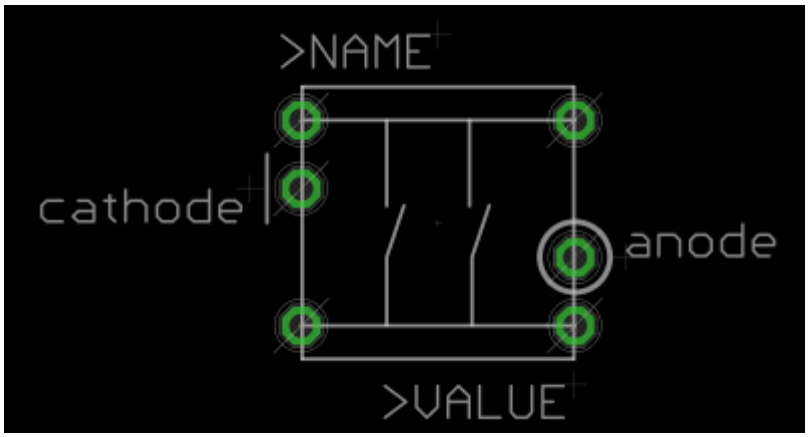
v1.0: first release.

Assembly

Start with the SMT parts (caps, ICs and RN), then the resistors and diodes with correct polarity. Headers, switches (read below first!), encoder, caps and knobs.

Important: insert the LEDs into the switches before soldering them! It's quite hard to bend the legs once the switches are in place. The LED legs should not interfere with the switch action; i.e. the button should be pressed and released without getting caught on the legs.

Ensure that when the switch is soldered in, the LED is correctly polarised. Round part (anode) of the LED to the circled pin; flat part (cathode) to the line:



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