



Only six DOUT anode columns are used. These are current limited by resistors R1-6.

## BOM v1.0 placeholder

Type	Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
<b>Resistors</b>									
	6	100-220R 5%	THT	R1-6					
<b>Resistor network</b>									
	1	10k	SOM16	RN1	4816P-T02-103LF				
<b>Capacitors</b>									
	3	100n	1206	C1-3					
<b>Diodes</b>									
	19	1N4148	THT						
<b>LEDs</b>									
	18	various	3mm						put LEDs in the switches first!
<b>ICs</b>									
	1	74HC165	SOIC16	IC2	595-SN74HC165DR				
	2	74HC595	SOIC16	IC1, IC3					
<b>Encoder</b>									
	1	STEC12				STEC12E08			
<b>Switches</b>									
	18	MEC/APEM	3FTH9	SW1-18	642-3FTH9	TASTER 3FTH9	705276 - 62		
<b>Headers</b>									
	1	1*3	male						
	2	2*5	male						
<b>Hardware</b>									
	6	M3 spacer	TBD						
	1	datawheel	DK-38?						
	18	switchcaps	22.5mm	642-1S11-22.5		1S11-22.5			

## Versions

v1.0: first release.

## Assembly placeholder

Solder the SMT parts first. Ensure the TVS diode is aligned with the larger pin on the larger pad and that the wide edge of the body fits between the silkscreen indicators:



*Note this is the board viewed from the bottom; the larger pin is on the bottom-left.*

To have a through-hole USB A socket, the pins are quite close together. Be careful to avoid bridges when soldering and **test with a multimeter to ensure no adjacent pins are connected afterwards!**

It goes without saying, but ensure none of the metal parts are touching (e.g. the outside of the USB sockets with J7, the 1N4148 diode with the mounting brackets etc.).

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## License

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