



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>									
	2	22R 5%	1206	R1, R2					
	1	330R 5%	1206	R3					
	2	10k 5%	THT	R4, R5					
<b>Diodes</b>									
	1	1N4148	THT						
	1	TVS	SOT-143	TVS1	PRTR5V0U2X,215				
<b>Transistor</b>									
	1	BC337	TO-92	T1					
<b>Switch</b>									
	1	SPDT		SW1	1101M2S3AV2BE2	SS 13LSP			Mouser one is better quality
					1101M2S4AV2BE2				Longer actuator (recommended).
<b>Headers</b>									
	1	1*2	male						
	5	1*3	male						
	1	1*5	male						or wire directly
<b>Sockets</b>									
	1	USB B	horizontal	USB1	538-67068-7041	USB BW			
	1	USB A	upright	USB2	538-89485-8000				
	1	3.5mm		SOCK1	CUI SJ1-3535NG				other variants are possible (different pins switched etc.)
<b>Hardware</b>									
	2	M3 PCB mount		534-7695					

## 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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