USB-power module

This is a very simple board performing the following functions:

- USB B socket (main USB (slave) and +5V power)
- USB A socket (for USB host)
- Toggle switch for USB host
- 3.5mm jack for footswitch/gate or other input/output (audio?)
- Headers to draw +5V directly off the USB power buss.

Schematic

BOM v1.0 (plceholder)

Type	Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
Resistors									
	2	22R 5%	1206	R1, R2	R1, R2				
	1	330R 5%	1206	R3					
	2	10k 5%	THT	R4, R5					
Diodes									
	1	1N4148	THT						
	1	TVS	SOT-143	TVS1	PRTR5V0U2X,215				
Switch									
	1	SPDT		SW1	1101M2S3AV2BE2	SS 13LSP			Mouser one is better quality
					1101M2S4AV2BE2				Longer actuator (recommended).
Headers									
	1	2*8	**SMT** male						could use a longer strip
Sockets									
	1	SD		SD-RSMT-2-MQ					
Hardware									
	2	M3 Spacer	5mm(?)						

Versions

v1.0: first release.

Assembly

License

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