RES-SD module

This is a very simple board performing three functions:

- SD card socket
- Reset button
- Indicator LEDs

Schematic

Connector J16E (SMT male header) carries 3v3 power and data signals for the SD card, along with the Reset and “LED” signals.

The Reset button has a damping capacitor.

The LEDs are connected through limiting resistors. The cathode pins are closest to the edge of the board.

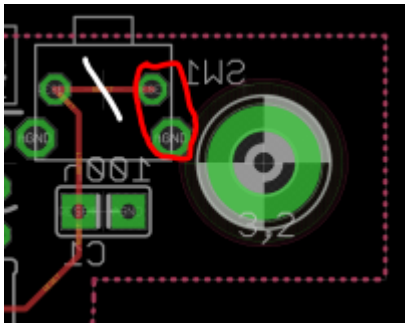
BOM v1.0

Type	Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
Resistors									
	4	~1k 5%	THT	R1-4					depends on LEDs
Capacitors									
1	100n		1206 or THT	C1					
LEDs									
4	Green		2*3*4					eBay	
4	Orange		2*3*4					eBay	
4	Red		2*3*4					eBay	
4	Blue		2*3*4					eBay	
Switch									
1	tact low profile			MJTP1117		700310 – 62			
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. **Important!** v1.0 boards have an error with the Reset switch. All boards should have one trace cut (shown in white), but it is required to bridge a pin with the adjacent mounting pin

(as circled in red)



Assembly

The following build order is suggested:

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