

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.

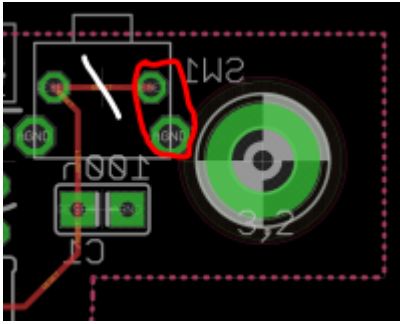
BOM v1.0

| 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 | | SMTmale | | | | | | 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:

License

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