



**Parts**

**Resistors:**

- 3x 220 Ohm
- 1x 910 Ohm
- 14x 1 kOhm
- 3x 2 kOhm
- 1x 3.3 kOhm
- 1x 10 kOhm
- 1x 12 kOhm
- 8x 27 kOhm

**Capacitor:**

- 8x 1 nF
- 1x 100nF
- 1x 2.2 μF ELKO

**Diodes:**

- 1x 1N4148
- 4x Low Current LEDs (2mA)

**Semiconductors:**

- Arduino Pro Micro
- LM4040c41 (Precision Voltage Reference 4.096V)
- MCP4922 (Digital Analog Converter)
- TL072 (Op Amp)
- TL074 (Op Amp)
- 6N138 (Opto Coupler)
- 74S04n (Hex Inverter)

**Mechanical:**

- Push Button
- 3 Pin & Jumper
- 3x 14Pin IC Socket
- 2x 8Pin IC Socket
- 9x jack sockets (Thonkiconn)
- MIDI Socket
- 16Pin Ribben Cable Socket
- 160x100mm 2.54mm raster stripboard