

## Bill of Materials

### CS4271 Audio Codec x 1

- <https://www.digikey.com/product-detail/en/CS4271-CZZ/598-1041-5-ND/923161/?itemSeq=302626773>
- <https://www.jameco.com/z/A000080-Arduino-Arduino-MEGA-Protoboard-PCB-Rev3-2152411.html?CID=BINGMC&msclkid=cbf5a24349101fdf7a17ff37ce9a2d7c>

### 11 MHz Crystal x 1

- <https://www.digikey.com/product-detail/en/ECS-110.5-20-1/X089-ND/79405/?itemSeq=302626781>

### IC OPAMP VFB 1 CIRCUIT 8SOIC x 3

- <https://www.digikey.com/product-detail/en/AD8057ARZ/AD8057ARZ-ND/620675/?itemSeq=302626794>
- <https://protosupplies.com/product/pcb-soic-tssop-28-to-dip-adapter/>

### Resistors

- 1 kohm x 2
- 300 ohm x 5
- 5.1 ohm x 1
- 10 Kohm x 11
- 47 kohm x 1
- 634 ohm x 2
- 91 ohm x 2
- 100 kohm x 6

### Capacitors

- Electrolytic
  - 1 uF x 4
  - 4.7 uF x 6
  - 7 uF x 1
  - 470 pF x 2
  - 10 uF x 2
- Ceramic
  - 20 pF x 4
  - 2.7 nF x 2
  - 100 nF x 12
  - Blue LEDs x 5
    - 20mA max operating limit
- Push Button x 4
- 3PDT Switch Push Button-- Find these at mammothelectronics.com.

- put a 0.1uf cap across the switch (Common to normally open) to provide hardware debounce