

## Build Option Type: Cherry Switches

| Index | Quantity | Description                                   | Vendor  | Vendor Part Number  | Unit Price | Extended Price USD | Notes |
|-------|----------|-----------------------------------------------|---------|---------------------|------------|--------------------|-------|
| 1     | 1        | Arduino Pro Micro (micro USB conn) ATmega32u4 | ebay    | -                   | 3.75       | 3.75               |       |
| 2     | 1        | MacroKeyboard v0.3+ PCB                       | Ryan    | -                   | 2.50       | 2.50               |       |
| 3     | 11       | Cherry Mx Switch, Blue, SPST-NO 0.01A 12V     | DigiKey | CH196-ND            | 0.95       | 10.43              |       |
| 4     | 11       | CHERRY MX KEYCAP - R2 (TRANSLUCENT)           | DigiKey | 1568-PRT-15306-ND   | 0.95       | 10.45              |       |
| 5     | 2        | Rotary Encoder w/ Switch                      | ebay    | -                   | 0.78       | 1.56               |       |
| 6     | 2        | Knob for Rotary shaft, 6mm dia                | ebay    | -                   | 0.65       | 1.30               |       |
| 7     | 1        | CONN JACK STEREO 3.5MM R/A                    | DigiKey | CP1-3523N-ND        | 0.74       | 0.74               | 2     |
| 8     | 4        | SWITCH TACTILE SPST-NO 0.05A 12V (6x6mm)      | DigiKey | EG1861-ND           | 0.25       | 1.00               |       |
| 9     | 3        | CAP KEYSWITCH SQUARE BLACK (for 6x6mm switch) | DigiKey | 450-1829-ND         | 0.12       | 0.36               |       |
| 10    | 2        | 1x12 Header 0.1" pitch                        | DigiKey | S6100-ND            | 0.69       | 1.38               |       |
| 11    | 16       | Diode, small signal. SOD-123                  | DigiKey | 1N4148W-13FDICT-ND  | 0.18       | 2.88               | 1     |
| 12    | 2        | Resistor 1206, 330 ohm                        | DigiKey | RMCF1206JT330RCT-ND | 0.03       | 0.05               |       |
| 13    | 2        | LED 1206, Green                               | DigiKey | 732-4990-1-ND       | 0.21       | 0.42               |       |
|       |          |                                               |         |                     |            | total cost         | 36.83 |

## Build Option Type: Generic 12mm Tactile Switches

| Index | Quantity | Description                                   | Vendor  | Vendor Part Number  | Unit Price | Extended Price USD | Notes |
|-------|----------|-----------------------------------------------|---------|---------------------|------------|--------------------|-------|
| 1     | 1        | Arduino Pro Micro (micro USB conn) ATmega32u4 | ebay    | -                   | 3.75       | 3.75               |       |
| 2     | 1        | MacroKeyboard v0.3+ PCB                       | Ryan    | -                   | 2.50       | 2.50               |       |
| 3     | 11       | SWITCH TACTILE SPST-NO 0.05A 12V              | DigiKey | EG1821-ND           | 0.45       | 4.91               |       |
| 4     | 11       | CAP PUSHBUTTON SQUARE GRAY                    | DigiKey | EG1079-ND           | 0.14       | 1.56               |       |
| 5     | 2        | Rotary Encoder w/ Switch                      | ebay    | -                   | 0.78       | 1.56               |       |
| 6     | 2        | Knob for Rotary shaft, 6mm dia                | ebay    | -                   | 0.65       | 1.30               |       |
| 7     | 1        | CONN JACK STEREO 3.5MM R/A                    | DigiKey | CP1-3523N-ND        | 0.74       | 0.74               | 2     |
| 8     | 4        | SWITCH TACTILE SPST-NO 0.05A 12V (6x6mm)      | DigiKey | EG1861-ND           | 0.25       | 1.00               |       |
| 9     | 3        | CAP KEYSWITCH SQUARE BLACK (for 6x6mm switch) | DigiKey | 450-1829-ND         | 0.12       | 0.36               |       |
| 10    | 2        | 1x12 Header 0.1" pitch                        | DigiKey | S6100-ND            | 0.69       | 1.38               |       |
| 11    | 16       | Diode, small signal. SOD-123                  | DigiKey | 1N4148W-13FDICT-ND  | 0.18       | 2.88               | 1     |
| 12    | 2        | Resistor 1206, 330 ohm                        | DigiKey | RMCF1206JT330RCT-ND | 0.03       | 0.05               |       |
| 13    | 2        | LED 1206, Green                               | DigiKey | 732-4990-1-ND       | 0.21       | 0.42               |       |
|       |          |                                               |         |                     |            | total cost         | 22.42 |

## Notes:

- 1 Optional; solder bypass jumper pads if not using anti-ghosting diodes.
- 2 Have not tested this part's footprint visually it looks like a match)