PRO MOD	FL FULL	RGB Typica	ıl Ruile

Index	Quantity	Description	Vendor	Vendor Part Number	Unit Price	Extended Price USD	Notes
1	1	Arduino Pro Micro (micro USB conn) ATmega32u4	-	-	3.75	3.75	
2	1	MacroKeyboard v2.x PCB	Ryan	-	5.00	5.00	
3	11	Cherry Mx Switch, Blue, RGB SPST-NO	-	-	0.95	10.43	3
4	11	CHERRY MX KEYCAP - Clear or Windowed	-	-	0.95	10.45	
5	2	Rotary Encoder w/ Switch	DigiKey	987-1398-ND	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	CP1-3524NG-ND (or CP1-3523N	0.74	0.74	
8	1	SWITCH TACTILE SPST-NO 0.05A 12V (6x6mm)	DigiKey	679-2443-ND	0.30	0.30	
9	0	CAP KEYSWITCH SQUARE BLACK for 6x6mm switch (OPTIONAL)	DigiKey	450-1829-ND	0.12	-	
10	2	1x12 Header 0.1" pitch	DigiKey	S6100-ND	0.69	1.38	
11	0	Diode, small signal. SOD-123 (OPTIONAL)	DigiKey	1N4148W-13FDICT-ND	0.18	=	1
12	1	RES 330 OHM 5% 1/4W 1206	DigiKey	RMCF1206JT330RCT-ND	0.03	0.03	
13	13	SK6812 MINI-E Addressable RGB LED 5V	AliExpress	https://www.aliexpress.com/ite	0.50	6.50	2
14	1	3D Printed Case - Custom-	Ryan?	-	0.48	0.48	
15	1	LCD 4x20 with i2c backpack (or any i2c LCD)	-	-	4.00	4.00	
16	1	Potentiometer 5K Ohm (the big kind, like a volume knob)	ebay	-	1.00	1.00	
17	1	Screw Terminal, 3 Pos, 5mm pitch	ebay	-	0.75	0.75	
					total cost	47.67	

As Cheap as Possible, No Keyboard switches

Index	Quantity	Description	Vendor	Vendor Part Number	Unit Price	Extended Price USD	Notes
1	1	Arduino Pro Micro (micro USB conn) ATmega32u4	-	-	3.75	3.75	
2	1	MacroKeyboard v2.x PCB	Ryan	-	5.00	5.00	
3	11	SWITCH TACTILE SPST-NO 0.05A 24V (12x12mm)	DigiKey	450-1158-ND	0.33	3.63	4
4	11	CAP TACTILE ROUND BLACK	DigiKey	679-2315-ND	0.21	2.31	
5	2	Rotary Encoder w/ Switch	DigiKey	987-1398-ND	0.78	1.56	
6	2	Knob for Rotary shaft, 6mm dia	ebay	-	0.65	1.30	
7	θ	CONN JACK STEREO 3.5MM R/A	DigiKey	CP1-3524NG-ND (or CP1-3523N	0.74		
8	1	SWITCH TACTILE SPST-NO 0.05A 12V (6x6mm)	DigiKey	679-2443-ND	0.30	0.30	
9	θ	CAP KEYSWITCH SQUARE BLACK for 6x6mm switch (OPTIONAL)	DigiKey	450-1829-ND	0.12		
10	θ	1x12 Header 0.1" pitch	DigiKey	\$6100-ND	0.69		
11	θ	Diode, small signal. SOD-123 (OPTIONAL)	DigiKey	1N4148W-13FDICT-ND	0.18		1
12	θ	RES 330 OHM 5% 1/4W 1206	DigiKey	RMCF1206JT330RCT-ND	0.03		
13	θ	SK6812 MINI-E Addressable RGB LED 5V	AliExpress	https://www.aliexpress.com/ite	0.50		2
14	θ	3D Printed Case - Custom-	Ryan?		0.48		
15	θ	Potentiometer 5K Ohm (the big kind, like a volume knob)	ebay	-	1.00		
16	θ	Screw Terminal, 3 Pos, 5mm pitch	ebay	-	0.75	-	
17	θ	LCD 4x20 with i2c backpack (or any i2c LCD)	-	Ξ	4.00		
					total cost	17.85	

Notes:

- 1 Optional; solder bypass jumper pads if not using anti-ghosting diodes.
- 2 Haven't found a reliable supplier for this part. Check datasheet before buying!
- 3 Any compatible keyboard switch will work. Can sub for non- transparent body if not backlighting with LEDs
- 4 Use generic tac switch, not Omrom (locating holes arent drilled for the Omrom nubs)