## **Oak Compact Joystick - A**

Version: V0.2

Commerc	ial Parts
ID	Part Name

TRRS Audio Cable

Adafruit Mini Analog Joystick

24 AWG Wire #4 3/8" screws

Ziptie

(Optional for mount) M3 screws and nuts x2

(Optional for mount) 1/4-20 tee nut x1

Digikey Shipping (<\$100 order)

<b>3D Printed</b>	Parts ESTIMATED PRICING USING 1KG ROLL COST:
ID	Part
-	Oak Enclosure Top
	Oak Enclosure Bottom
	(Optional) Joystick Camera Mount
	(Optional) Oak Convex Topper
	(Optional) Oak Concave Topper
	(Optional) Oak Cylindrical Topper
	(Optional) Oak Goalpost Topper

Custo	m Printed Ci	rcuit Board (PCB)
ID	Part	

## **Tools for Assembly**

Soldering Iron

Solder

#3 Philips Screwdriver

Flush cutters

Wire strippers

(Optional for mount adapter) 1/4-20 screw or hex bolt, at least 1/2" long

Alternative	es (if there are other sources for some parts link them below)
ID	Part and description

1/4-20 tee nut

M3 Screws and Nuts

Wire

#4 3/8" screws

## Last Updated: 2023-05-15

Part Type	QTY QTY/PKG	\$/PK	(G	PKG QTY
Electrical	1	1 \$	7.29	1
Electrical	1	1 \$	31.43	1
Electrical	1	1	0.72	1
Mechanical	4	1 \$	0.63	4
Mechanical	1	1 \$	0.17	1
Mechanical	0	340 \$	22.14	0
Mechanical	0	100 \$	15.49	0
Shipping	1	1	\$8.00	1

\$	25.00			
Material	QTY Mass	(g) / Unit Time	e / Unit	
PLA	1	35.36	157	
PLA	1	27.24	131	
PLA	0	8.5	54	
PLA	0	6.62	30	
PLA	0	8.46	42	
PLA	0	21.73	137	
PLA	0	35.85	206	

Local hardware store				
Local hardware store				
Local hardware store				
Mechanical	4	100	\$ 7.82	1

Unit Cost		Tot	al Cost	Total Print time (hr)	Total filament (g)
\$	53.72	\$	53.72	4.80	143.76

\$/Unit		Extended		Tota	al	Link	
\$	7.29	\$	7.29	\$	7.29	https://www.digikey.	ca/en/products/detail/tensility-interna
\$	31.43	\$	31.43	\$	31.43	https://www.digikey.	ca/en/products/detail/adafruit-indust
\$	0.72	\$	0.72	\$	0.72	https://www.digikey.	ca/en/products/detail/cnc-tech/3122-
\$	0.63	\$	2.52	\$	2.52	https://www.digikey.	ca/en/products/detail/serpac/6005/3
\$	0.17	\$	0.17	\$	0.17	https://www.digikey.	ca/en/products/detail/3m/CT4NT18-N
\$	0.07	\$	-	\$	-	https://a.co/d/fai6zK	<u>P</u>
\$	0.15	\$	-	\$	-	https://a.co/d/7PBKIr	<u>mx</u>
\$	8.00	\$	8.00	\$	8.00		
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Print Time (Min)	Estimated Pri	ce	Link
157	\$ (	0.88	
131	\$ (	0.68	
0	\$ (	0.21	
0	\$ (	0.17	
0	\$ (	0.21	
0	\$ (	).54	
0	\$ (	0.90	
	\$	-	
	\$	-	

Print Time (Min)	Estima	ted Price
157	\$	0.88
131	\$	0.68
0	\$	0.21
0	\$	0.17
0	\$	0.21
0	\$	0.54
0	\$	0.90
	\$	-
	\$	-

	Link	

