Electrical BOM 2025-01-25 D. lacobacci

Google Sheets Link

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Тт Category	T _T Attachment	тт Item	# Quantity	Approx. Unit Cost	Approx. Total Cost	T _T Notes	✓ Purchased
Accessory	N/A	NeoPixel 1/4 60 Ring - 5050 RGBW LED w/ Integrated Drivers - Cool White - ~6000K	4	\$11.95	\$47.80		
Accessory	N/A	HDMI 5" 800x480 Display Backpack - With Resistive Touchscreen	1	\$74.95	\$74.95		
Accessory	N/A	Micro Limit Switch	6	\$0.28	\$1.68		
Accessory	N/A	Lidar <tbd></tbd>	0	\$-	#VALUE!		
Battery	N/A	Zeee 2S Lipo Battery 8000mAh 7.4V	1	\$39.59	\$39.59		
Battery	N/A	Fireproof Explosionproof Large Capacity Battery Storage Guard Pouch	1	\$13.49	\$13.49		
Battery	N/A	Tenergy TB-6AB Balance Charger Discharger 1S-6S Digital Battery Pack Charger	1	\$39.99	\$39.99		
Battery	N/A	XT60 to Deans Connector	1	\$3.83	\$3.83	Alternatively, you could change the deans connector on the battery to an XT60	
Component	N/A	Momentary Switch	1	\$5.00	\$5.00		
Component	N/A	Power Switch	1	\$1.40	\$1.40		
Component	Main	1k ohm_Resistor - 0805 SMD	1	\$0.01	\$0.01		
Component	Main	200 ohm Resistor - 0805 SMD	1	\$0.01	\$0.01		
Component	Main	Red LED - 0805 SMD	1	\$0.07	\$0.07		
Component	Main	Blue LED - 0805 SMD	1	\$0.07	\$0.07		
Component	Main	3.3v to 5v Logic Converter (SN74LVC1T45DBVR)	1	\$0.52	\$0.52		
Component	Main	Voltage Divider (MPMT10014001AT1)	1	\$4.81	\$4.81		
Component	Main	TALL GPIO FEMALE HEADERS - 2X20	1	\$1.95	\$1.95		
Component	Main	Header Pins - 1 x 24	2	\$0.22	\$0.45		
Component	Main	Mini Blade Fuse Block Holder (3557-2)	1	\$1.25	\$1.25		
Component	Main	30A Mini Blade Fuse	1	\$0.34	\$0.34		
Component	Main	DC-DC Buck Converter (DFR0753)	1	\$8.50	\$8.50		
Connector	Leg, Main	JST-XH-02 - Pair	7	\$0.03	\$0.21	Any JST-XH kit will work	
Connector	Leg, Main	JST-XH-03 - Pair	19	\$0.03	\$0.57	Any JST-XH kit will work	
Connector	Main	JST-XH-04 - Pair	1	\$0.03	\$0.03	Any JST-XH kit will work	
Connector	Leg, Main	JST-XH-06 - Pair	12	\$0.03	\$0.36	Any JST-XH kit will work	
Connector	Main	XT30PW-M	3	\$0.96	\$2.88		
Connector	Main	<u>XT30-U</u>	3	\$0.85	\$2.55		
Connector	Main	XT60PW-M	1	\$2.00	\$2.00		
Controller	N/A	Xbox Core Wireless Gaming Controller	1	\$47.00	\$47.00		
Cooling	Raspberry Pi	Aluminum Heatsinks	3	\$0.30	\$0.90		
Cooling	N/A	Noctua NF-A8 5V PWM, Premium Quiet Fan with USB Power Adaptor Cable, 4-Pin, 5V Version (80mm, Brown)	1	\$16.95	\$16.95		
Compute	Raspberry Pi	128 GB SD Card	1	\$23.00	\$23.00	Any size over 32 GB should work	
Compute	Main	Teensy 4.1	1	\$33.08	\$33.08		

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PCB	Main	Main Board	1	\$2.18	\$2.18	Depends on how many you order	
PCB	Leg	Leg Board	6	\$0.48	\$2.88	Depends on how many you order	
Servos	N/A	30KG Digital servo high Torque Full Metal Gear	18	\$15.67	\$282.06	Cheaper on AliExpress; Using average of Amazon and AliExpress Price	
Compute	Raspberry Pi	Raspberry Pi 5 - 8 GB RAM	1	\$80.00	\$80.00		
Wiring	N/A	Micro HDMI to HDMI Wire <tbd></tbd>	0 \$-		#VALUE!		
Wiring	N/A	Main to Leg Connections <tbd></tbd>	0 \$-		#VALUE!		
Wiring	N/A	12 Gauge Wire	1	\$0.66		Used for the power switch as it has the full battery current; Could likely go with a lower gauge	
						Note: This price is based on you being able to order exact amounts; If you are purchasing everything from scratch it will be much higher	