							T. 15:	0.4	E 1 0/	21			Power/Passive
iPo Rattery Charger	Description	Designator CHA	Quantity	Manufacturer Hitec	Supplier MaxAmps	Total mass[g]	Total Price [\$] \$119.99	CAD file	EagleCAD library	Shop link	Ordered	Recieved	Components
Po Battery Charger 1.1V 3S 11000mAh LiPo battery	Charger Battery	BAT1	1	Hitec MaxAmps	MaxAmps MaxAmps	640	\$119.99		H	https://www.maxamps.com/lipo-battery-charger-hitec-x2-ac-plus-black-edition-ac- https://www.maxamps.com/lipo-11000-3s-11-1v-battery-pack	<u> </u>	<u> </u>	
RT 10474	XT60 connectors male/female pair	DATI		waxamps	iviaxAmps	040	\$249.99			https://www.maxamps.com/lipo-11000-3s-11-1V-battery-pack	<u> </u>	~	Controllers.
1110474	A 100 connectors male/lemale pair								$\overline{\mathbf{v}}$		~	$\checkmark$	Processors
			1		Digikey		\$1.50			https://www.digikey.com/en/products/detail/PRT-10474/1568-1816-ND/8258064?			and Oscillators
	680 ohm resistor SMD 0805		1		Digitizes		\$0.10		~	https://www.digikey.com/en/products/detail/AC0805JR-07680RL/YAG3800CT-ND	2		Actuators and Receivers/
C0805JR-07680RL	680 onm resistor SMD 0805		1		Digikey		\$0.10			https://www.digikey.com/en/products/detail/ACU805JR-0/680RL/YAG3800C1-NU	<b>~</b> ]	ш	Transmitters
RA-6APB471V	470 ohm resistor SMD 0805		1		Digikey		\$0.70		$\overline{v}$	https://www.digikey.com/en/products/detail/panasonic-electronic-components/ER	<b>✓</b>		
00805FR-0710KL	10K ohm resistor SMD 0805		9		Digikey		\$0.42	H		ey.com/en/products/detail/RC0805FR-0710KL/311-10.0KCRCT-ND/730482?item/		H	Sensors
0805X103K5RAC7210	0.01uF capacitor SMD 0805		1		Digikey		\$0.35	H		products/detail/C0805X103K5RAC7210/399-C0805X103K5RAC7210CT-ND/1356		H	Geriaora
0053C104KAB2A	0.1uF capacitor SMD 0805		12		Digikey		\$5.32	H		n/en/products/detail/LD053C104KAB2A/478-LD053C104KAB2ACT-ND/12153435		H	
003C104KABZA	0. für capacitor SWD 0805		12		Digikey		<b>\$</b> 0.32				<u> </u>		External
J				Murata Electronic					$\overline{\mathbf{v}}$		$\overline{\mathcal{A}}$		Hadrware
RM21BC81C106ME15L	10uF capacitor SMD0805		8		Digikey		\$2.00		_	https://www.digikey.com/en/products/detail/GRM21BC81C106ME15L/490-10499-			(Not Powered)
1117DT18CTR	1.8V Voltage Regulator		1	STMicroelectroni	Digikey		\$0.60		$\checkmark$	https://www.digikey.com/en/products/detail/stmicroelectronics/LD1117DT18CTR/1	<b>✓</b>		Plug Accessories
1117DT33CTR	3.3V Voltage Regulator		1	STMicroelectroni	Digikey		\$0.51	in the second	$\overline{v}$	https://www.digikey.com/en/products/detail/LD1117DT33CTR/497-1235-1-ND/586	<u> </u>	ħ	
1117DT50CTR	5.0V Voltage Regulator Linear		1	STMicroelectroni	Digikey		\$0.54	ħ		https://www.digikey.com/en/products/detail/LD1117DT50TR/497-1238-1-ND/5862	<u> </u>	ħ	
	5.0V Voltage Regulator Switching		1	Pololu	Pololu	3	\$16.95	ă –	n	https://www.pololu.com/product/2851	<u></u>	ñ	
				Microchip		Ů	******				_		
C32MX340F512H-80V	Microcontroller	M1	1	Technology	Digikey	2.3	\$6.77			https://www.digikey.com/en/products/detail/PIC32MX340F512H-80V%2fPT/PIC3;	✓		
232RQ-REEL	USB to UART FTDI IC		1		Newark		\$4.95		$\checkmark$	https://www.newark.com/webapp/wcs/stores/servlet/EnhancedCheckoutConfirma	<b>✓</b>		
232RQ-REEL	USB to UART FTDI IC		1		Digikey		\$4.60	ħ		https://www.digikey.com/en/products/detail/FT232RQ-REEL/768-1008-1-ND/1836	<u> </u>	n	
	Raspberry Pi Compute Module M3+				- '								
	8GB	M2	1	Raspberry Pi	Digikey	9	\$30.00	$\checkmark$	$\checkmark$	https://www.digikey.com/en/products/detail/CM3%2b%2f8GB/1690-1030-ND/986	<b>✓</b>		
M2837B0	(Microprocessor)												
	USB-C header	J2	2	JAE Electronics	Mouser		\$3.02	$\checkmark$		https://www.mouser.com/ProductDetail/JAE-Electronics/DX07S016JA1R1500?qs	<b>~</b>		
	SD card socket for Raspberry Pi		1		Adafruit		\$1.95		<b>~</b>	https://www.adafruit.com/product/1660	<b>~</b>		
ndisk 16GB Ultra MicroSD Card	MicroSD Card for Raspberry Pi	MSD	1	SanDisk	Amazon	9.92	\$6.18			https://www.amazon.com/dp/B073K14CVB/	<b>~</b>	$\checkmark$	
33854-052FSLF	DDR2 SODIM slot (Raspberry Pi Cor	npute Module)	1	Amphenol ICC	Digikey		\$6.40	$\overline{\mathbf{V}}$	$\overline{V}$	https://www.digikey.com/en/products/detail/amphenol-icc-fci/10033854-052FSLF/	<b>✓</b>		
3LV-3C-8M-000000 80MHz crystal o	80MHz crystal oscillator		1		Digikey		\$1.35		$\overline{v}$	https://www.digikey.com/en/products/detail/cts-frequency-controls/CB3LV-3C-8M(	<b>✓</b>		
	32.768kHz crystal oscillator (smaller	ootprint)	1		Digikey		\$2.73	ń	V	https://www.digikey.com/en/products/detail/abracon-llc/ASDK1-32.768KHZ-LRT/2	<u> </u>	ħ	
	32.768kHz crystal oscillator (reference		1		Digikey		\$1.33	h		https://www.digikey.com/en/products/detail/abracon-lic/ASEK-32-768KHZ-LRT/20	<u></u>	h	
	Pressure/Temperature Sensor IC	BAR	1	NXP USA	Mouser	1.9	\$5.46			https://www.ugikey.com/ProductSide/all/ab/lacon-in/ASEN-329105KHZ-EKHZU			
									<u> </u>	https://www.modser.com/reductDetail/841-WFL3113A2K1	<u> </u>	H	
K 3339	GPS Module	GPS	1	Mediatek	Adafruit	4	\$29.95			nttps://www.adafruit.com/product/790	<u> </u>		
			1	Adafruit	ChangHong		\$14.95				-	<b>b</b>	
T-LTE-RPC-UFL	GPS Antenna	GPSANT		Addituit	Changriong		ψ14.00			https://www.adafruit.com/product/960			
IA to u.FL cable adapter	GPS u.FL to SMA adapter		1	Adafruit	Adafruit		\$3.95			https://www.digikey.com/en/products/detail/adafruit-industries-llc/851/6051775?s=	$\checkmark$		
								Щ	H				
C-SR04	Ultrasonic	SON	3	Sparkfun	Sparkfun	25.5	\$12.00	$\sim$	ightharpoons	https://www.sparkfun.com/products/15569	<b>∠</b>		
M-20948		IMU	- 1	TDK	Digikey	13	\$10.47		$\overline{}$		$\overline{\mathcal{A}}$		
25545	IMU 9DoF IC	"""		InvenSense	Diginoy		V10.11			https://www.digikey.com/en/products/detail/tdk-invensense/ICM-20948/6623535			
	Logic Level FET 1.8V to 3.3V vice												
	versa for IMU & PIC32MX340F512H										$\checkmark$		
SS138	I2C communication wire		5	ON Semiconduct	Mouser		\$2.00			https://www.mouser.com/ProductDetail/863-BSS138-G			
PRLS0001PG00001C	Pressure sensor IC	MPR	1	Honeywell	Digikey	1.1	\$6.44			https://www.digikey.com/en/products/detail/honeywell-sensing-and-productivity-so	<u> </u>	Ш	
sky FS-i6X 6-10(Default 6)CH 2.4GH:			1	Flysky	Amazon		\$55.99			https://www.amazon.com/gp/product/B0744DPPL8/ref=as_li_tl?ie=UTF8&tag=rc-	<u> </u>		
rial Telemetry Radio Kit - 915MHz, 10	Transmitter		1		Sparksfun		\$39.99			https://www.sparkfun.com/products/15007	<b>✓</b>		
cerstar RS20A BLheli_S 4-in-1 ESC	ESC/ Motor Telemetry	ESC	1	Racerstar	getfpv	25	\$28.00			https://www.getfpv.com/racerstar-rs20a-blheli-s-4-in-1-esc.html	✓	ightharpoons	
3 2822-1275kv	Motor	MOT	4	Tumigy	Hobbyking	120	\$78.12	$\overline{\mathbf{v}}$		https://hobbyking.com/en_us/turnigy-aerodrive-sk3-2822-1275kv-brushless-outru	<b>✓</b>		
	Camera and Transmitter	CAM+CAMTX	1	AKK	Amazon	67.76?	\$27.99			https://www.amazon.com/AKK-Degree-800TVL-Switchable-Transmitter/dp/B	~	$\checkmark$	
V Receiver 5.8G 150CH OTG		CAMRX						6	6				
ceiver	Camera Receiver		1	SKYDROID	Amazon	50	\$27.99			https://www.amazon.com/Receiver-Female-Plastic-Android-Monitor/dp/B07Q5MF	~	$\checkmark$	
Sail Winch Servo 25T	Servo, 10.6kg / 0.9sec	SRVO	4	Corona	Ebay	60	\$64.00			https://www.ebay.com/itm/254648162225?chn=ps&mkevt=1&mkcid=28	<b>~</b>	$\checkmark$	
					Hobbyking	19.4	\$11.78						
	Propeller	DDOD.	2	Macter Aircon									
peller Set White	Propeller	PROP	2	Master Airscrew									
peller Set White oz HyperD	Fabric to be used for envolope	ENV	2 18	HyperD	Rip stop by the rol	500	\$85.00			https://ripstopbytheroll.com/collections/ultralight-nylon-fabric/products/1-0-oz-hype		<u> </u>	
peller Set White  oz HyperD  litipurpose 6061 Aluminum Sheet	'				Rip stop by the rol								
peller Set White oz HyperD Itipurpose 6061 Aluminum Sheet	Fabric to be used for envolope Aluminum sheet	ENV Al	18	HyperD McMaster-Carr	Rip stop by the rol McMaster-Carr	500 32	\$85.00 \$4.68			https://ripstopbytheroll.com/collections/ultralight-nylon-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/89015K116/	~ <u> </u> ~ <u> </u>	<b>V</b>	
peller Set White oz HyperD Itipurpose 6061 Aluminum Sheet ssivated 18-8 Stainless Steel Pan ad Phillips Screw	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment	ENV Al SCREW1	18 1 50	HyperD McMaster-Carr McMaster-Carr	Rip stop by the rol McMaster-Carr McMaster-Carr	500 32 TBD	\$85.00 \$4.68 \$11.90			https://ripstopbytheroll.com/collections/ultralight-nyion-fabric/products/1-0-oz-hyphtlps://www.mcmaster.com/890.15K116/ https://www.mcmaster.com/890.15K116/ https://www.mcmaster.com/91772A530/	~ ~	<b>V V V</b>	
opeller Set White  Oz HyperD  Itipurpose 6061 Aluminum Sheet ssivated 18-8 Stainless Steel Pan ad Phillips Screw dium-Strength Steel Hex Nut	Fabric to be used for envolope Aluminum sheet	ENV Al SCREW1 NUT	18 1 50 100	HyperD McMaster-Carr McMaster-Carr McMaster-Carr	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr	500 32 TBD	\$85.00 \$4.68 \$11.90 \$4.88			https://ripstopbytheroll.com/collections/ultralight-nyion-fabric/products/1-0-oz-hyphtlps://www.mcmaster.com/890.15K116/ https://www.mcmaster.com/890.15K116/ https://www.mcmaster.com/91772A530/	~ ~	<b>V</b>	
iltipurpose 6061 Aluminum Sheet ssivated 18-8 Stainless Steel Pan ad Phillips Screw dium-Strength Steel Hex Nut eel Pan Head Phillips Screw	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws	ENV Al SCREW1	18 1 50	HyperD McMaster-Carr McMaster-Carr	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr	500 32 TBD	\$85.00 \$4.68 \$11.90			https://ripstopbytheroll.com/collections/ultralight-nyion-fabric/products/1-0-oz-hyphtlps://www.mcmaster.com/890.15K116/ https://www.mcmaster.com/890.15K116/ https://www.mcmaster.com/91772A530/	~ ~	<b>V V V</b>	
peller Set White oz HyperD litipurpose 6061 Aluminum Sheet ssivated 18-8 Stainless Steel Pan ad Phillips Screw dium-Strength Steel Hex Nut el Pan Head Phillips Screw	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws washers on inside of envolope of	ENV AI SCREW1 NUT USCREW	18 1 50 100 25	HyperD McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr	500 32 TBD TBD TBD	\$85.00 \$4.68 \$11.90 \$4.88 \$8.41	□ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨		https://ripstopbytheroil.com/collections/ultralight-nyton-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/89015K116/ https://www.mcmaster.com/91772A530/ https://www.mcmaster.com/95462A029/ https://www.mcmaster.com/92005A006/	7 7 7	Y Y Y Y Y Y	
peller Set White oz HyperD litjurprose 6061 Aluminum Sheet sivated 18-8 Stainless Steel Pan d Phillips Screw lium-Strength Steel Hex Nut el Pan Head Phillips Screw el Pan Head Phillips Screw	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws washers on inside of envolope of external part connections	ENV AI SCREW1 NUT USCREW WASH	18 1 50 100 25 30	HyperD McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr	500 32 TBD TBD TBD TBD	\$85.00 \$4.68 \$11.90 \$4.88 \$8.41 \$9.24	□ ✓ ✓		https://ripstophytheroil.com/collections/ultralight-nylon-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/99015K116/ https://www.mcmaster.com/991772A530/ https://www.mcmaster.com/99406A62A029/ https://www.mcmaster.com/992005A006/ https://www.mcmaster.com/991031A101/	y y y y	✓ ✓ ✓	
peller Set White oz HyperD Itipurpose 6061 Aluminum Sheet sisvated 18-8 Stainless Steel Pan dd Phillips Screw Jium-Strength Steel Hex Nut el Pan Head Phillips Screw el Pan Head Phillips Screw rbon Fiber Filament - 1.75mm	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws washers on inside of envolope of external part connections 30 Printer Filament	ENV AI SCREW1 NUT USCREW WASH FIL	18 1 50 100 25	HyperD McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr NylonX	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr Matterhackers	500 32 TBD TBD TBD TBD TBD TBD	\$85.00 \$4.68 \$11.90 \$4.88 \$8.41 \$9.24	□ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨		https://nipstophytheroil.com/collections/ultralight-nyton-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/890.18K118/ https://www.mcmaster.com/91772A530/ https://www.mcmaster.com/9172A530/ https://www.mcmaster.com/92005A008/ https://www.mcmaster.com/92005A008/ https://www.mcmaster.com/93131A101/ https://www.matterhackers.com/93131A101/ https://www.matterhackers.com/9313A101/	7 7 7	Y Y Y Y Y Y	
seller Set White oz HyperD tipurpose 6061 Aluminum Sheet sivated 18-8 Stainless Steel Pan d Phillips Screw lium-Strength Steel Hex Nut el Pan Head Phillips Screw el Pan Head Phillips Screw bon Fiber Filament - 1.75mm Weather Balloon	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws washers on inside of envolope of external part connections 3D Printer Filament Helium Lift Bag	ENV AI SCREW1 NUT USCREW WASH FIL LFTB	18 1 50 100 25 30	HyperD McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr NylonX Hwoyee	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr Matterhackers scientific sales	500 32 TBD TBD TBD TBD TBD TBD	\$85.00 \$4.68 \$11.90 \$4.88 \$8.41 \$9.24 \$56.00 \$35.00	□ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨		https://ripstophytheroil.com/collections/ultralight-nylon-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/99015K116/ https://www.mcmaster.com/991772A530/ https://www.mcmaster.com/99406A62A029/ https://www.mcmaster.com/992005A006/ https://www.mcmaster.com/991031A101/	y y y y	Y Y Y Y Y Y	
peller Set White oz HyperD  zo HyperD  tipurpose 6061 Aluminum Sheet sivated 18-8 Stainless Steel Pan dd Phillips Screw dium-Strength Steel Hex Nut el Pan Head Phillips Screw el Pan Head Phillips Screw bon Fiber Filament - 1.75mm 8 Weather Balloon	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws washers on inside of envolope of external part connections 30 Printer Filament	ENV AI SCREW1 NUT USCREW WASH FIL	18 1 50 100 25 30	HyperD McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr NylonX	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr Matterhackers	500 32 TBD TBD TBD TBD TBD TBD	\$85.00 \$4.68 \$11.90 \$4.88 \$8.41 \$9.24	□ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨		https://nipstophytheroil.com/collections/ultralight-nyton-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/890.18K118/ https://www.mcmaster.com/91772A530/ https://www.mcmaster.com/9172A530/ https://www.mcmaster.com/92005A008/ https://www.mcmaster.com/92005A008/ https://www.mcmaster.com/93131A101/ https://www.matterhackers.com/93131A101/ https://www.matterhackers.com/9313A101/	y y y y	Y Y Y Y Y Y	
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peller Set White oz HyperD  tipurpose 6061 Aluminum Sheet sivated 18-8 Stainless Steel Pan d Phillips Screw filum-Strength Steel Hex Nut e I Pan Head Phillips Screw bon Fiber Filament - 1.75mm 8 Weather Balloon 3 Al He Cylinder W/ CGA580 Valve I Park PCB	Fabric to be used for envolope Aluminum sheet Screew for enviope attachment nut for envope attachment Ultrasonic screws washers on inside of envolope of external part connections 30 Printer Filament Helium Lift Bag Helium PCB printing	ENV AI SCREW1 NUT USCREW WASH FIL LFTB He PCB	18 1 50 100 25 30 1 1	HyperD McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr NylonX Hwoyee Varies	Rip stop by the rol McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr McMaster-Carr Matterhackers scientific sales Praxair	500 32 TBD TBD TBD TBD TBD TBD TBD TBD TBD 200 N/A	\$85.00 \$4.68 \$11.90 \$4.88 \$8.41 \$9.24 \$58.00 \$35.00 \$248.00	□ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨ ∨		https://injstopbytheroil.com/collections/ultralight-nyton-fabric/products/1-0-oz-hyp- https://www.mcmaster.com/890.16K116/ https://www.mcmaster.com/890.16K116/ https://www.mcmaster.com/890.6K116/ https://www.mcmaster.com/95060606/ https://www.mcmaster.com/95060606/ https://www.mcmaster.com/950131A101/ https://www.mcmaster.com/950131A101/ https://www.scientificaales.com/95038-Weather-Balloon-350-Grams-Natural-p823 https://www.scientificaales.com/95038-Weather-Balloon-350-Grams-Natural-p823 https://www.scientificaales.com/97038-Weather-Balloon-350-Grams-Natural-p823 https://www.	y y y y	Y Y Y Y Y Y	
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