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						Table							٦		
F		Ref		Function Description	Part Description		nufacturer	Manufactu	urer PN		DigiKey PN	Source			F
				<u> </u>			Manadada			Digitoy i iv			1		
		PCB1		Raspberry Pi 4 B 2GB	Rasberrry Pi 4 B 2GB	Raspberry Pi		SC0193(9)	26	648-SC-193(9	)-ND	Digikey			
		A1		Raspberry Pi 4 B 2GB	2 x 20 Stacking Header	Adafruit Industri		2223		528-1385-ND		Digikey			
		J1		IMU Connection	JST XH Conn Header Male RA 4 pos 2.5r			S4B-XH-A-1		55-S4B-XH-A-		Digikey			
		J2		Bar30 Sensor	JST GH Conn Header Male RA 4 pos 1.2			SM04B-GHS-TB		55-1566-1-ND		Digikey	4		
		J3		Temp Sensor (reserved)	JST GH Conn Header Male RA 4 pos 1.2			SM04B-GHS-TB		55-1566-1-ND		Digikey	_		
		J4			Stemma QT JST 1mm 4 POS Conn Head			BM04B-SRSS-TE			SS-TBTCT-ND	Digikey	4		
		J5 J6		Stemma QT 3.3 Sensor Stemma QT 3.3 Sensor	Stemma QT JST 1mm 4 POS Conn Head Stemma QT JST 1mm 4 POS Conn Head			BM04B-SRSS-TE			SS-TBTCT-ND SS-TBTCT-ND	Digikey Digikey	-		
اے		J7		Stemma QT 3.3	Stemma QT JST 1mm 4 POS Conn Head			BM04B-SRSS-TE			SS-TBTCT-ND	Digikey	+		_
-		J8		Battery Balance Plug	JST XH Conn Header Male RA 5 pos 2.5r			S5B-XH-A-A		55-4228-ND	00-101-110	Digikey	+		E
		JP1		HW-PWM0 Lights (GPIO12)	Three pin 2.54mm 0.1" Header	Wurth Electronic		61300311121		32-5316-ND		Digikey	+		
		JP2		HW-PWM1 (GPIO13)	Three pin 2.54mm 0.1" Header	Wurth Electronic		61300311121		32-5316-ND		Digikey	1		
		JP3		Light Alternate (GPIO26)	Three pin 2.54mm 0.1" Header	Wurth Electronic		61300311121		32-5316-ND		Digikey	1		
		JP4		Cooling Fan	Three pin 2.54mm 0.1" Header	Wurth Electronic	Wurth Electronics		73	732-5316-ND		Digikey			
		U1		Analog to Digital Converter	10Bit Analog to Digital Converter 1 input	Microchip Techr	ology	MCP3021A5T-E/0		CP3021A5T-E		Digikey			
		C1		-	0.1 uf Capacitor Surface Mount 1812	KEMET		C1812X104KDRA			4KDRAC7800CT-ND	Digikey			
		C2		Noise Capacitor	10 uf Capacitor Surface Mount 1812	KEMET		C1812C106K3RA			6K3RAC7800CT-ND	Digikey	_		
		R1			24KOhm 0.05% 1/8W 0805		ronic Components	ERA-6VRW243V ERA-6VRW1002V		24KBSCT-ND		Digikey	_		
ام		R2		R2 Voltage Divider	10KOhm 0.05% 1/4W 0805	Panasonic Elect	Panasonic Electronic Components		V 10	10-ERA-6VRW1002VCT-ND		Digikey	4		D
٦		Offboard													
		J100	IMU	IMU Board Connection	JST XH Conn Header Male vert 4 pos 2.5	5mm JST Sales Amer	ion inc	B4B-XH-A	1E	55-B4B-XH-A-	ND	Digikey	-		
		HS1	FAN	Cooling Fan	Armor Lite Heat Sink with PWM Fan	Seeed Technolo		114992661		597-11499266		Digikey	+		
		1101	1744	Joseph Grant	74mer Elle Fleat Clink Width WWF all		9, 00	114002001	110	507 11400200	1110	g			
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