

Power Regulator BOM				Engineer:	Rene Nagy			Prepared For:	HyperRail Group 9								
Cat	Item Name	Part Designator (if applicable)	Part Value	Store Page Link	Documentation Link	Vendor	Vender No	Price	BOM Quantity	BOM Total		\$59.16	Total Component	84			
IC	5v 3A switching reg	U1		link	link	Digikey	576-1518-5-ND	2.01	1	2.01							
Inductor	330 uF radial inductor	L1	330 uH	link	link	Digikey	595-1734-ND	2.54	1	2.54							
Diode	40V 3A schottky diode	D1		link	link	Digikey	497-11370-1-ND	0.4	1	0.4							
Cap	100 uF 50v electrolytic	C1	100 uF	link	link	Digikey	732-8666-1-ND	0.26	1	0.26							
Cap	330 uF 10v electrolytic	C2	330 uF	link	link	Digikey	732-8912-1-ND	0.14	1	0.14							
Conn	XT-30 (M/F)	J3, J12, J13		link	link	Amazon	N/A	9.99	1	9.99							
Conn	2 pin Hirose connector M	J1, J2, J4, J10, J11		link	link	Digikey	H3893-ND	0.16	5	0.8							
Conn	2 pin Hirose connector F	J1, J2, J4, J10, J11		link	link	Digikey	H2083-ND	0.1	5	0.5							
Conn	3 pin Hirose connector M	J5 - J9		link	link	Digikey	H3894-ND	0.2	5	1							
Conn	3 pin Hirose connector F	J5 - J9		link	link	Digikey	H2084-ND	0.12	5	0.6							
Res	0805 10k resistor	R1-R6	10k	link	link	Digikey	RMCF0805JT10I	0.0078	6	0.0468							
Screw	M2.5 16mm Screw(100x)	91420A024			link	McMaster		4.66	4	4.66							
Screw	M4 16mm Screw(100x)	91420A226			link	McMaster		3.6	4	3.6							
	M5 25 mm																
Screw	Screw	801098			link	Home Depot		0.6	10	6							
Nut	M5 Nut	9120324			link	Home Depot		0.18	25	4.48							
Nut	M2.5 Nut(100x)	90592A006			link	McMaster		1.18	8	1.18							
Breakout Board	Adafruit HUZZAH32 - ESP32			link	link	Digikey	1528-2514-ND	20.95	1	20.95							